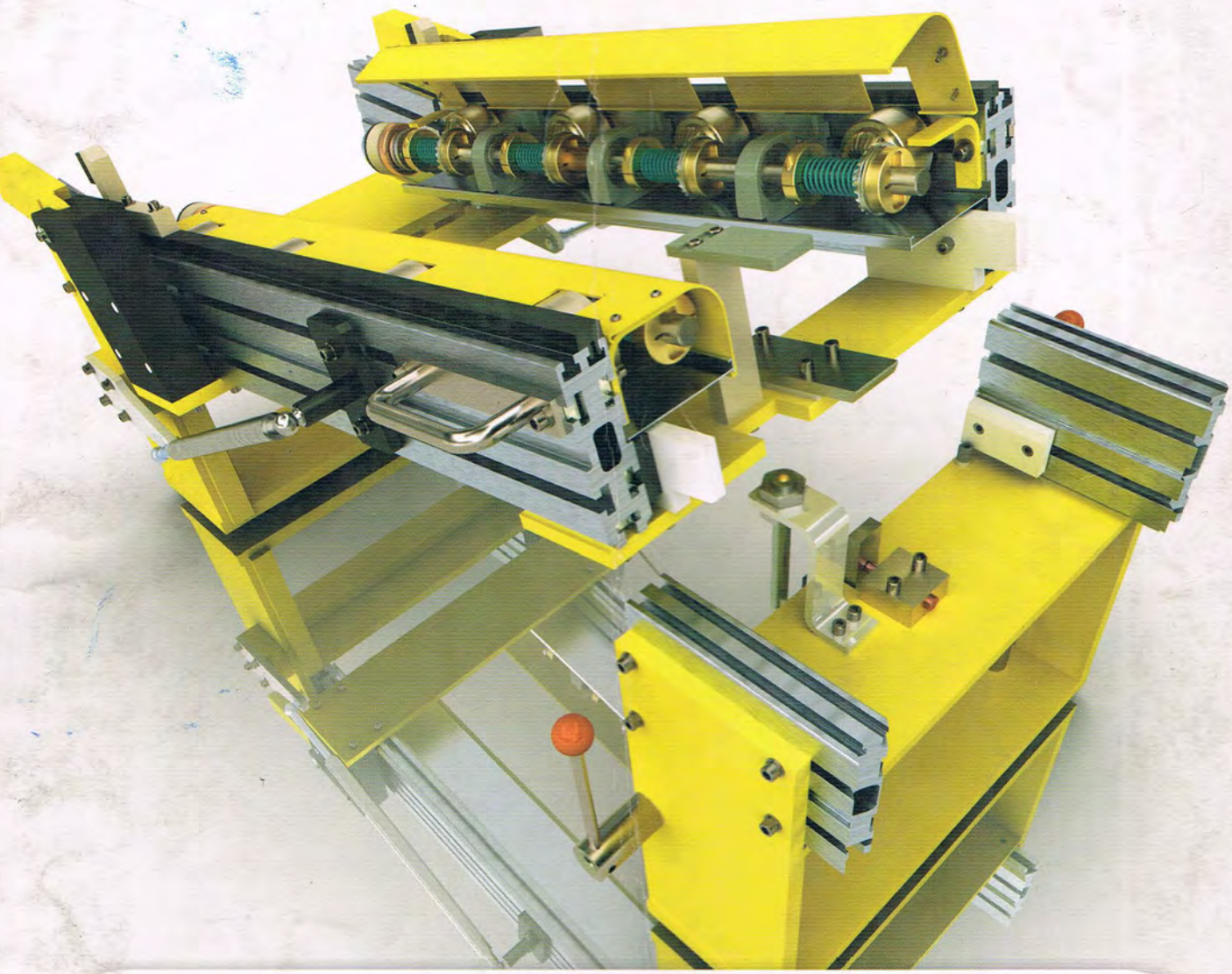
EXCELLENCE IN CAD EDUCATION
CADD CENTRE
#1 CAD COMPANY IN ASIA

SolidWorks

Project Workbook



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Project Workbook

SolidWorks

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Editor

CURRICULUM AND PRODUCT DEVELOPMENT TEAM

We appreciate your valuable feedback/suggestion on this courseware.

Kindly do mail it to us at :cpd@caddcentre.ws

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This project manual aims to hone your skills in handling the software that you have trained with CADD Centre Training Services Pvt Ltd. We have endeavored on providing industrial applicability experience by combining smart exercises following industry standards wherever necessary/possible. For convenience, all sheets have followed third angle projection. All data essential for completing the project/exercises are available through orthographic views only.

Note the following as you work on these exercises.

1. Periodically save all your work in the destined folder. Write down the full path and file name on the top of each exercise sheet, in the specified column.
2. Each exercise has a stipulated period. Note down the time you took to complete the exercise on top of the exercise sheet.
3. If you are in doubt, please clarify with your project guide. Do not assume.
4. For standard parts refer Design Data Book.
5. Contact your project guide after completion of each project for correction.

If you would like to share your views and comments, please do write to us to the address given below or E-Mail us: cpd@caddcentre.ws

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Mylapore, Chennai- 600004
E-mail: cpd@caddcentre.ws

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Sketcher

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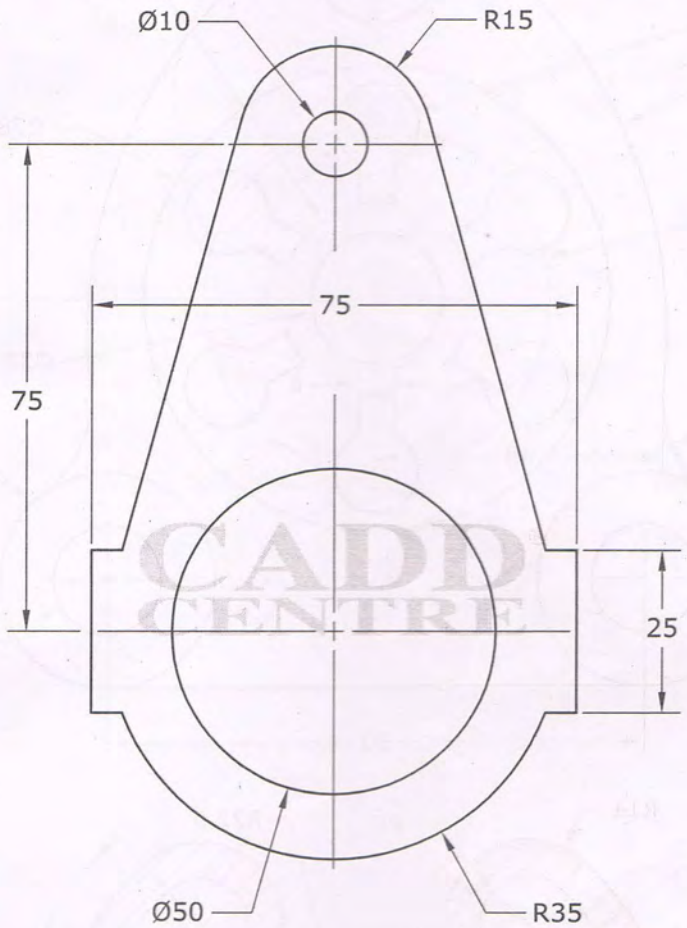
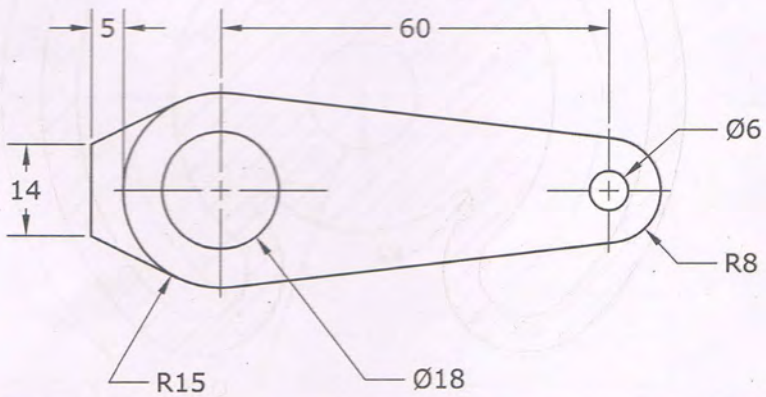
Exercise No: 01	File Name:
Duration: 30min	Actual Hours:

Instruction: -

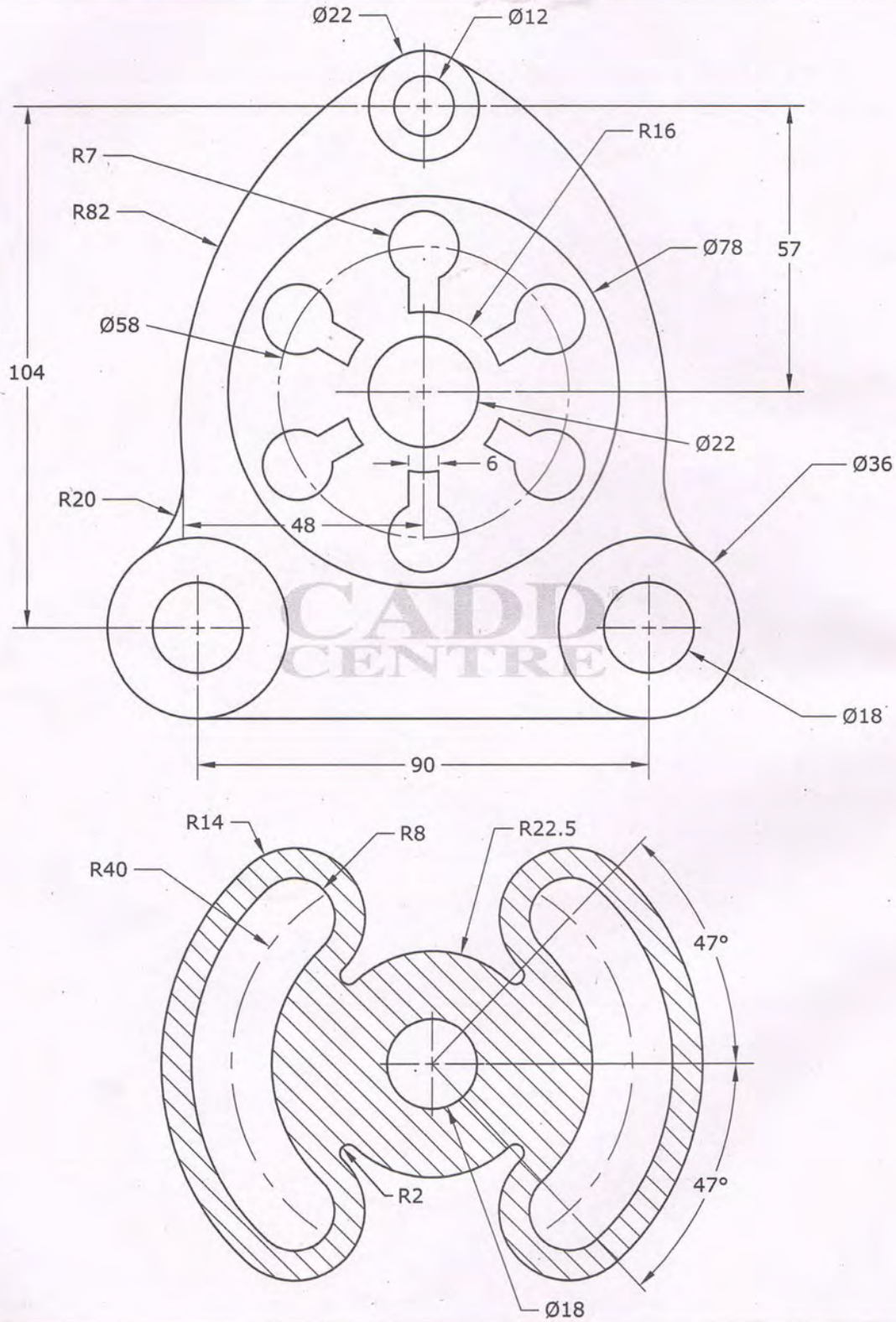
Exercise No 01,02,03 are intended for a SolidWorks user to practise sketcher tools, relations and dimensioning efficiently within stipulated duration.





HATRONYKS

Exercise No: 02	File Name:
Duration: 30min	Actual Hours:



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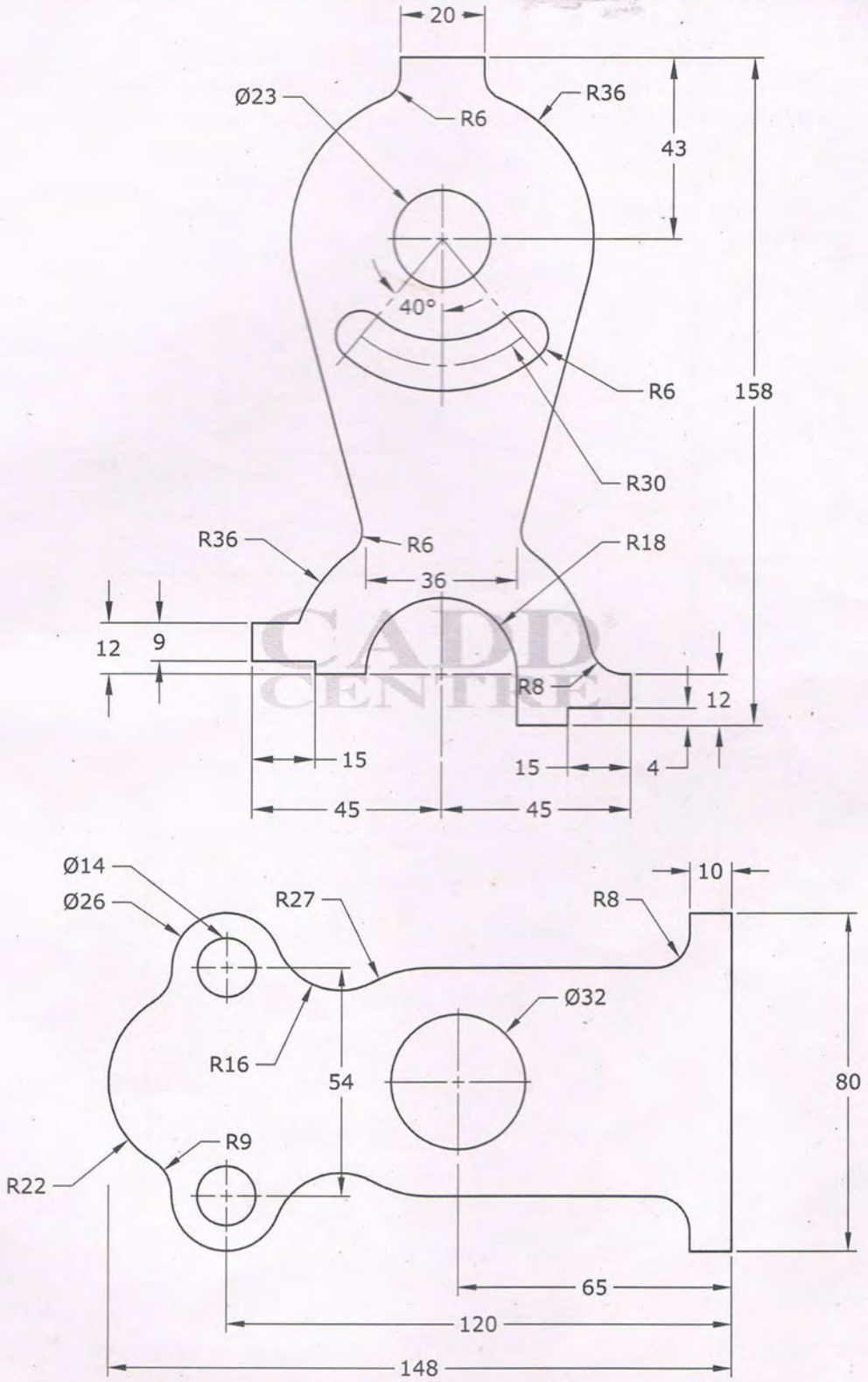
Exercise No: 03	File Name:
Duration: 30min	Actual Hours:

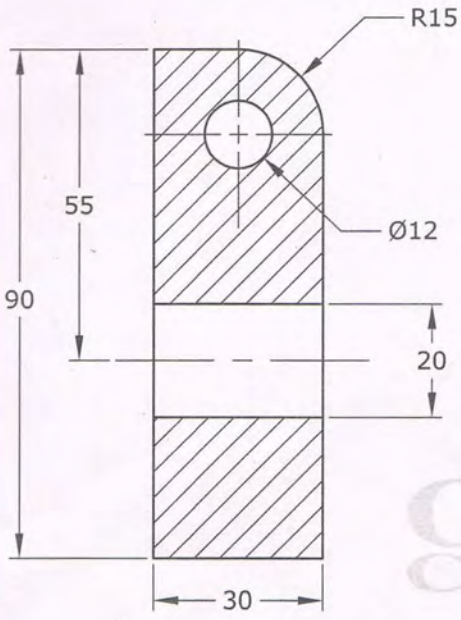


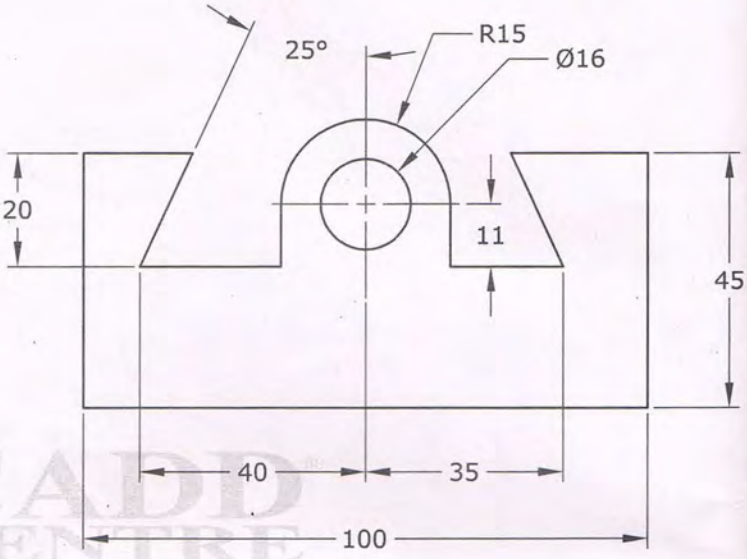
HATRONYKS

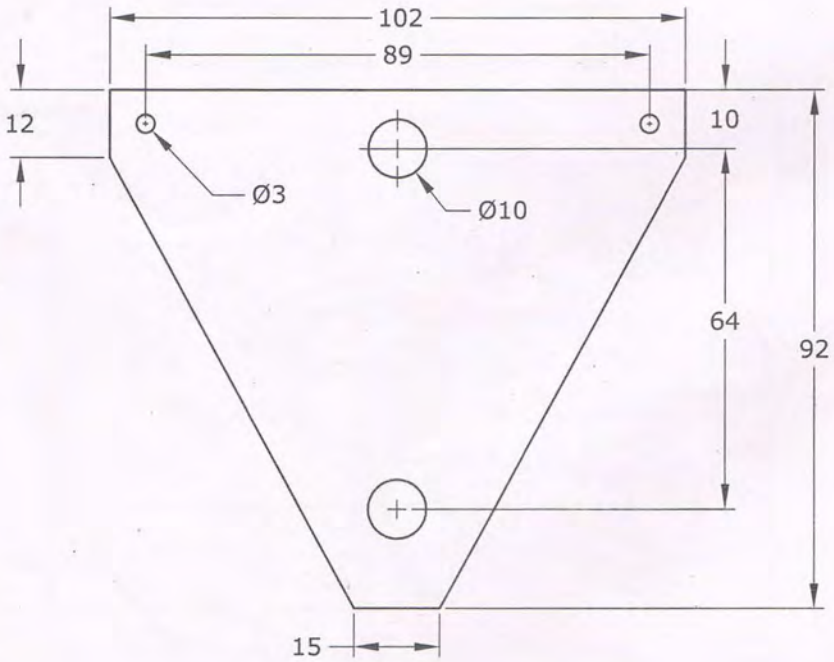
Exercise No: 04	File Name:
Duration: 30min	Actual Hours:

Instruction: -

Invoke SolidWorks 2D Emulator from Add-Ins and draw the sketch using command mode, add relations to make parametric.







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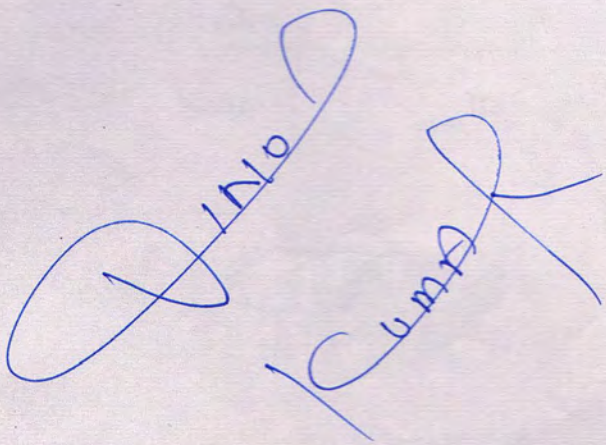
Part Modeling



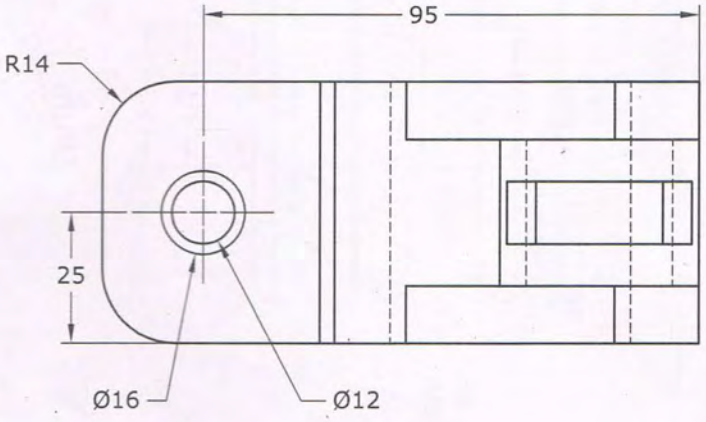
HATRONYKS

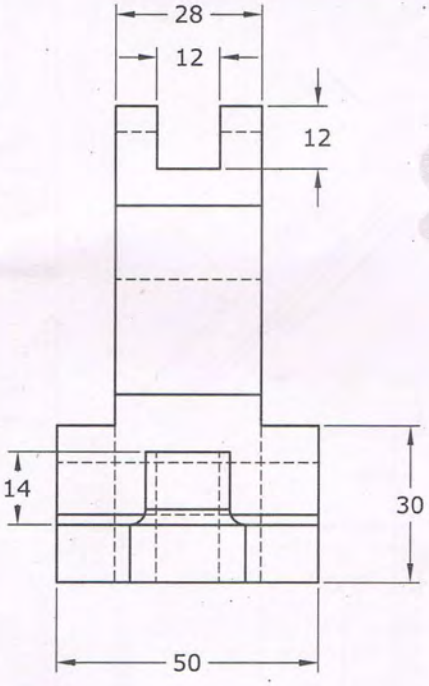
HATRONYKS

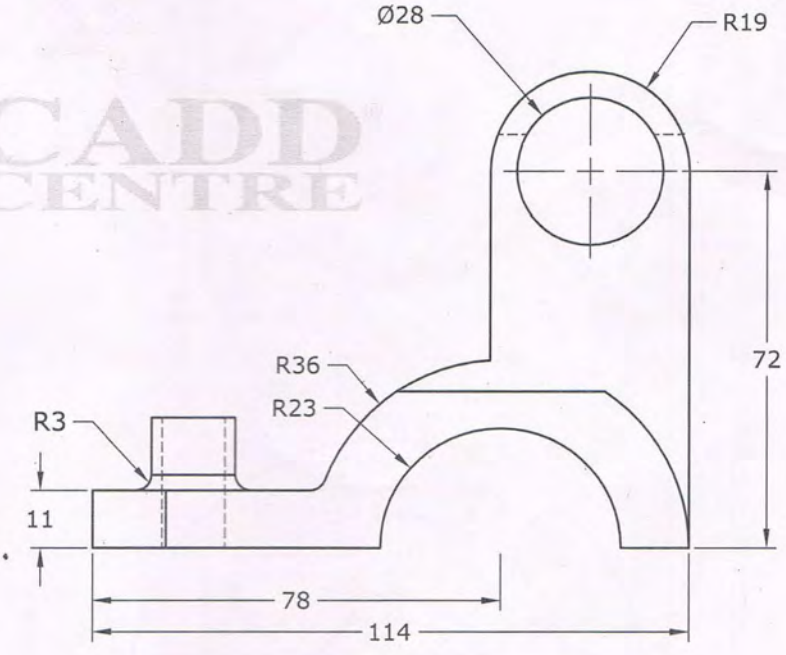
Exercise No: 05	File Name:
Duration: 50min	Actual Hours:

Instruction: -

Create component from the views using Sketch tools,Extrude,Fillet,Instant 3D.

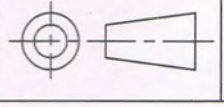






CADD CENTRE

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		



Details of Bracket

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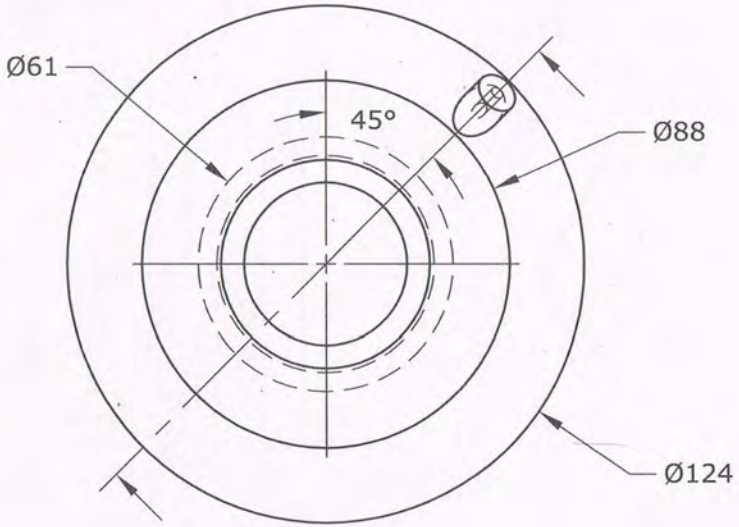
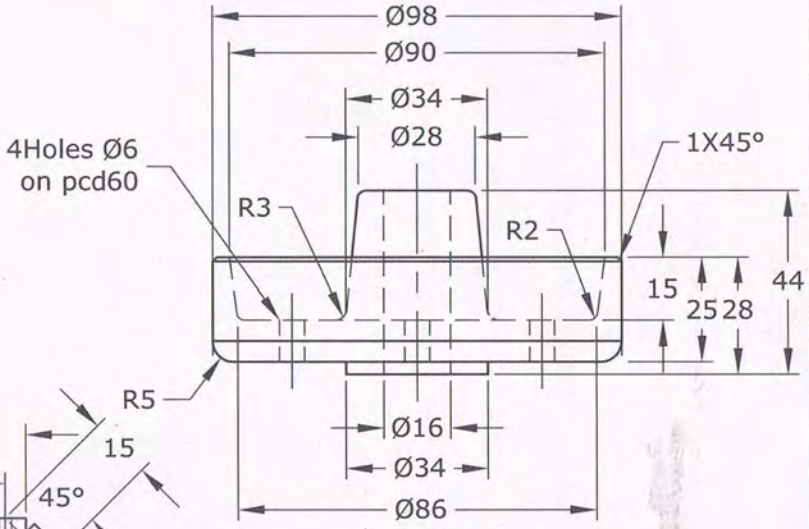
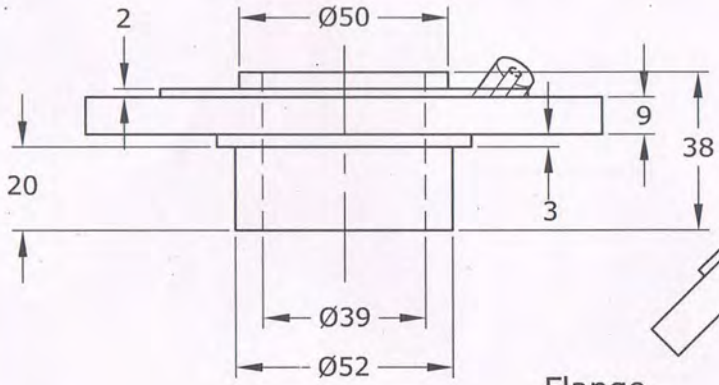
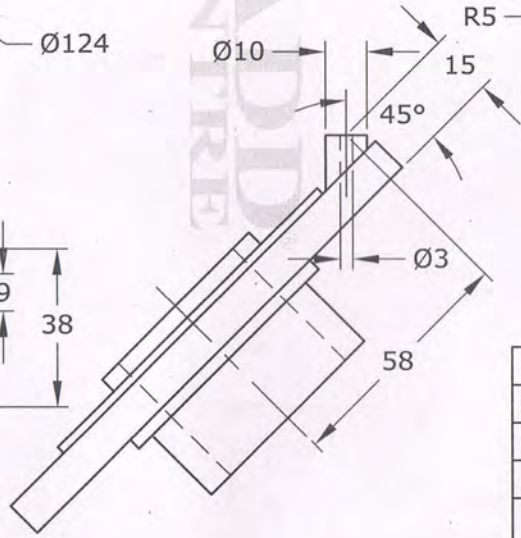
Exercise No: 06	File Name:
Duration: 60min	Actual Hours:





Drum





Flange

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	Details of Flange and Drum	

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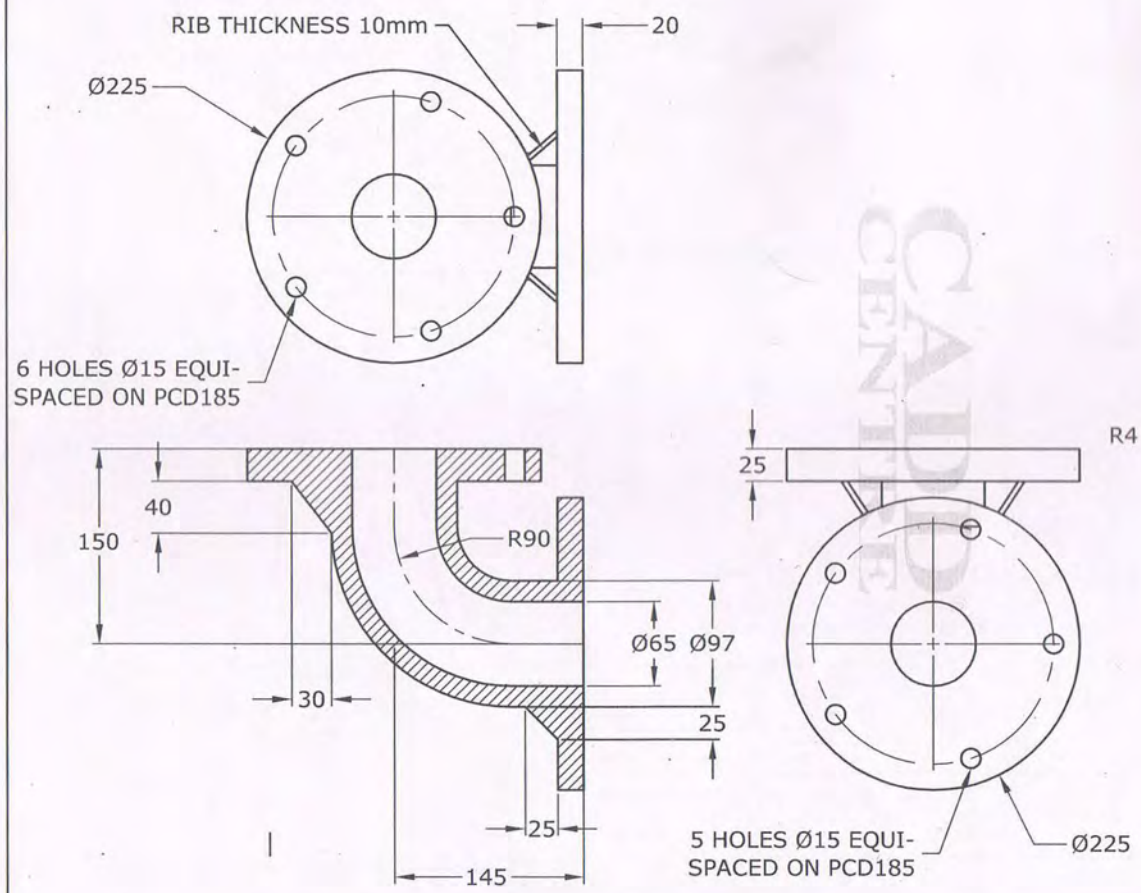
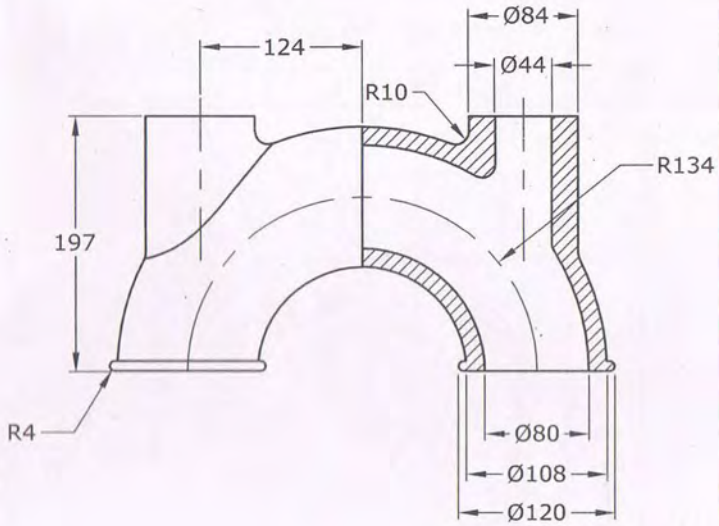
HATRONYKS

CADD CENTRE

Exercise No: 07	File Name:
Duration: 60min	Actual Hours:



Elbow made up of Cast Iron



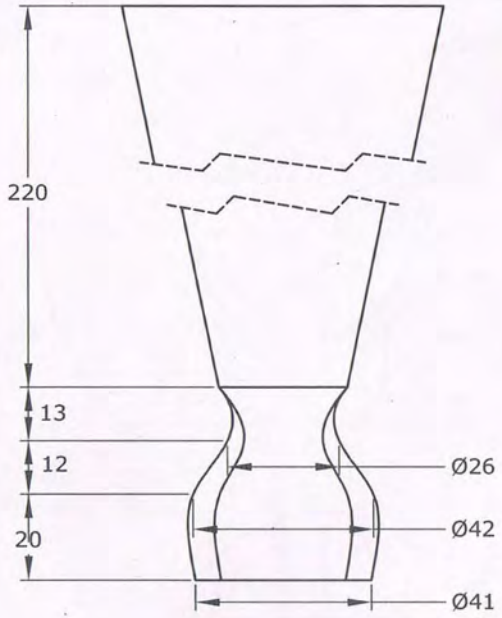
Suspension component

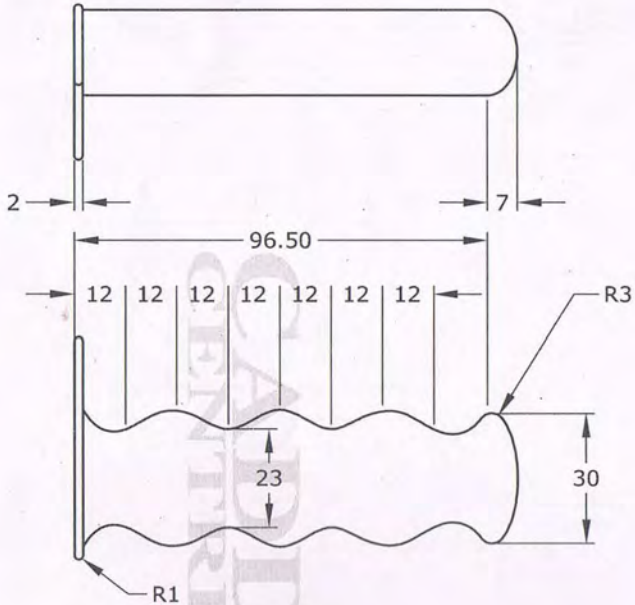
	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

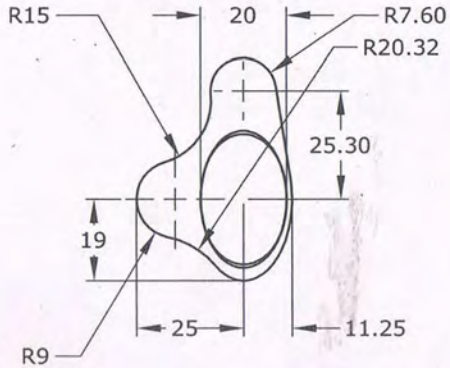
Details of Elbow and Suspension component

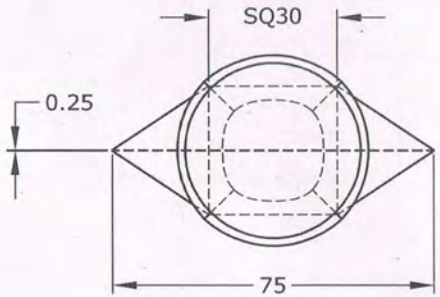
HATRONYKS
CADD CENTRE

Exercise No: 08	File Name:
Duration: 60min	Actual Hours:









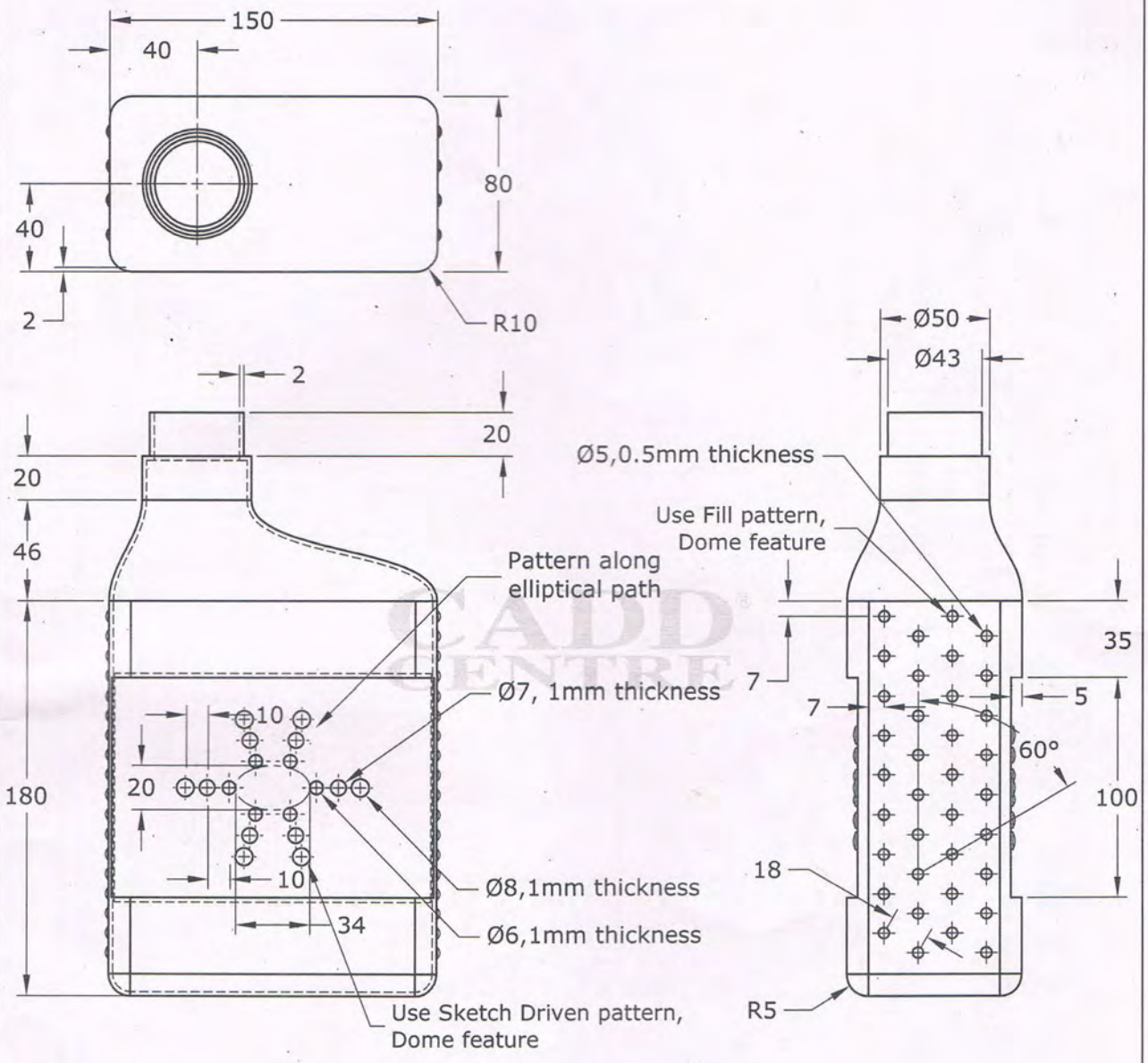
Wedge

Ice cream scoop handle

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	Details of Wedge and Handle	

HATRONYKS
CADD CENTRE

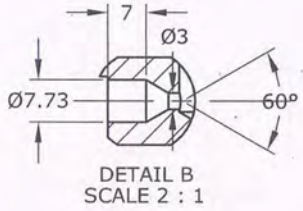
Exercise No: 09	File Name:
Duration: 45min	Actual Hours:



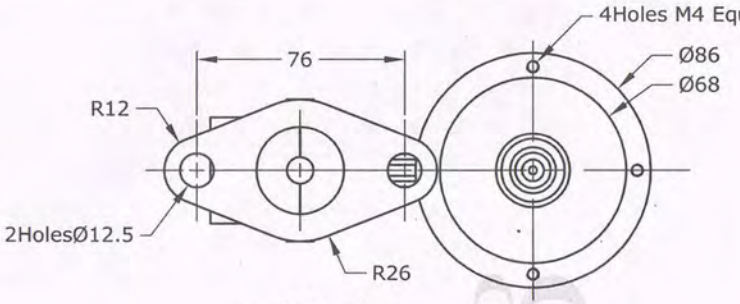
	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

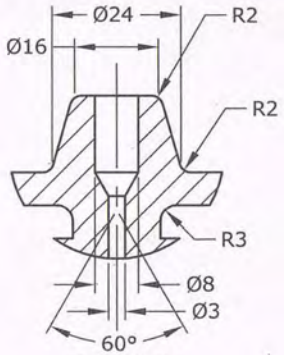
Details of Oil cane

Exercise No: 10	File Name:
Duration: 75min	Actual Hours:

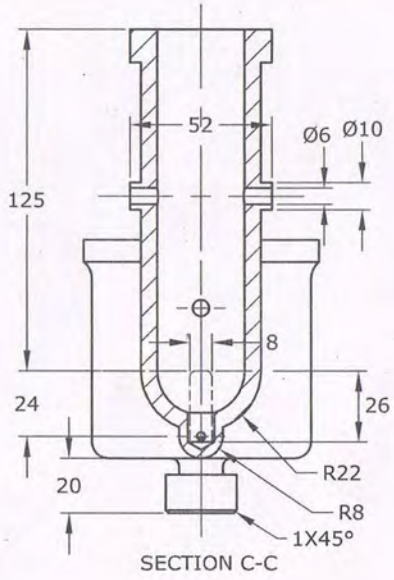


DETAIL B
SCALE 2 : 1

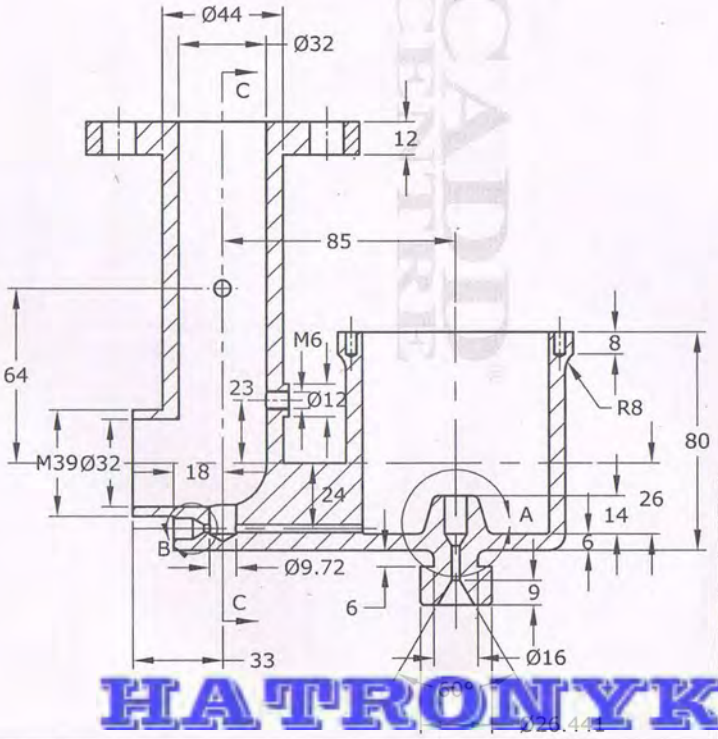




DETAIL A
SCALE 2 : 1



SECTION C-C



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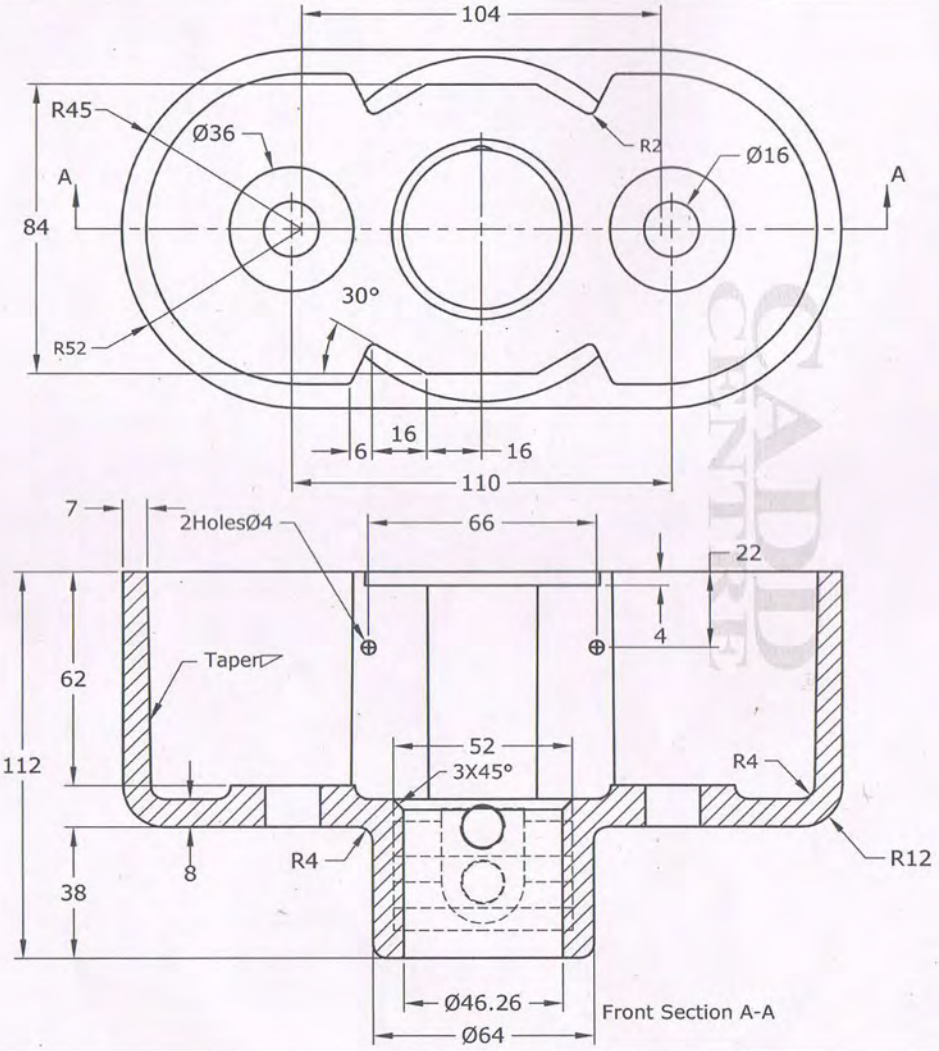
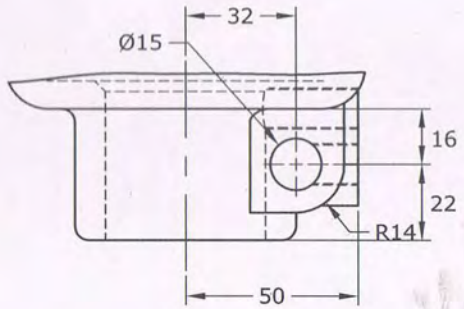
	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	Details of Carburettor body	

Exercise No: 11	File Name:
Duration: 45min	Actual Hours:





Partial Right Side View

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	Details of drill speeder body	

HATRONYKS
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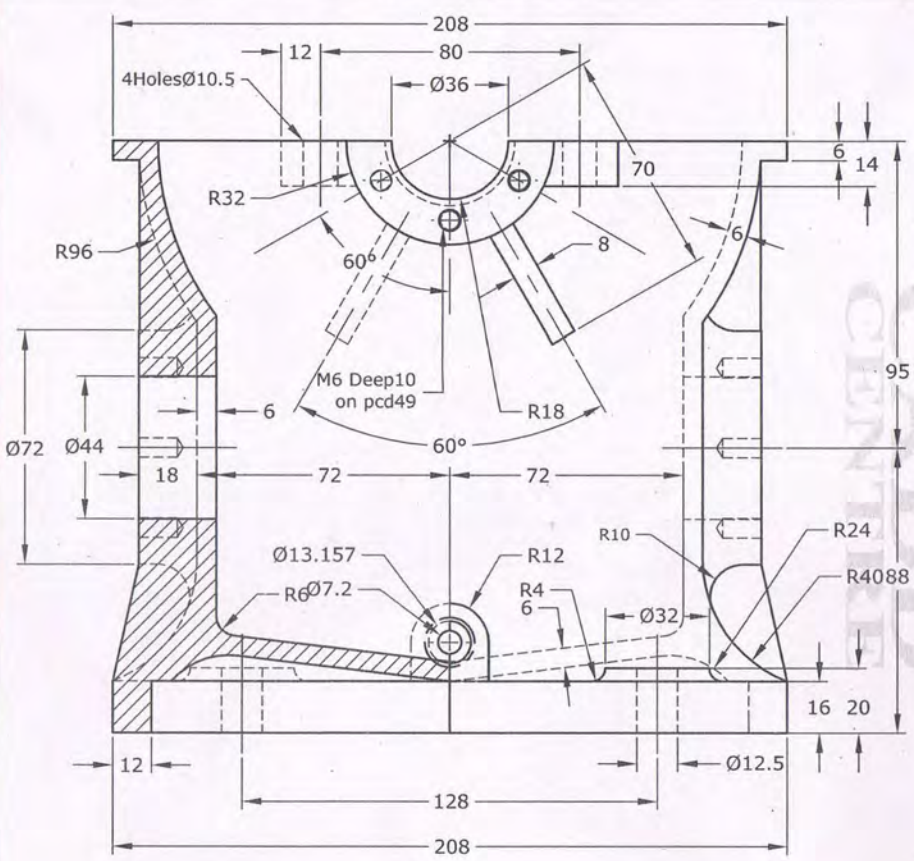
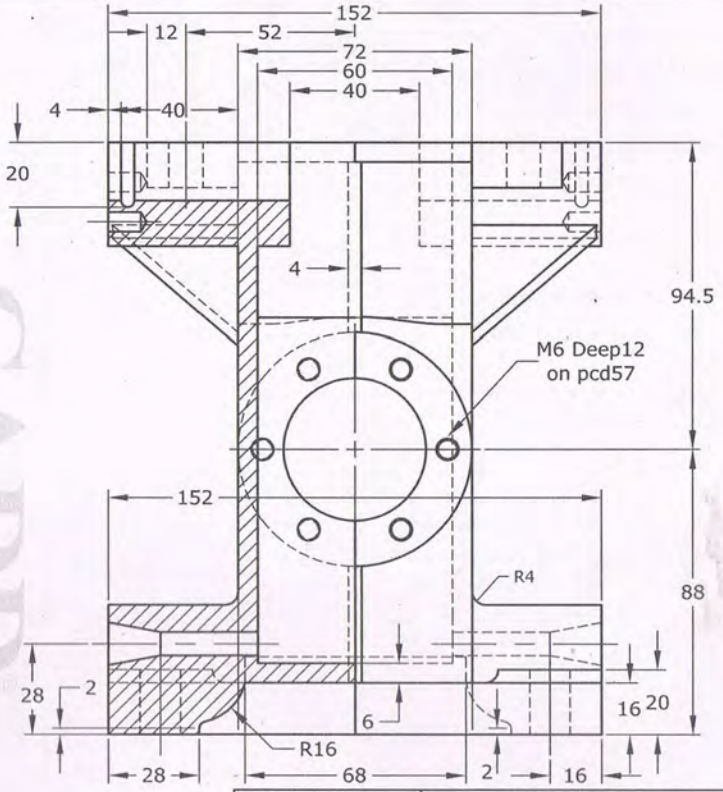
Exercise No: 12	File Name:
Duration: 50min	Actual Hours:





	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	Details of Gear Box Case	

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Assembly Modeling

HATRONYKS

Project No: 0A0-000	File Name:
Duration: 360min	Actual Hours:

Directions: -

The objective of this project is to create Ramsbottom safety valve. This safety valve characterized by two vertical tube is a spring loaded type of safety valve. It is fully employed in mobile boilers such as locomotive and marine boilers.

To complete the project follow the procedure given below: -

1. Create the parts from the detailed views shown in the Project 0A0-000.
2. Save each part with specified names in your locker/destined folder.
3. Strictly follow the dimensions given in the project.
4. Refer the design data book for standard parts.

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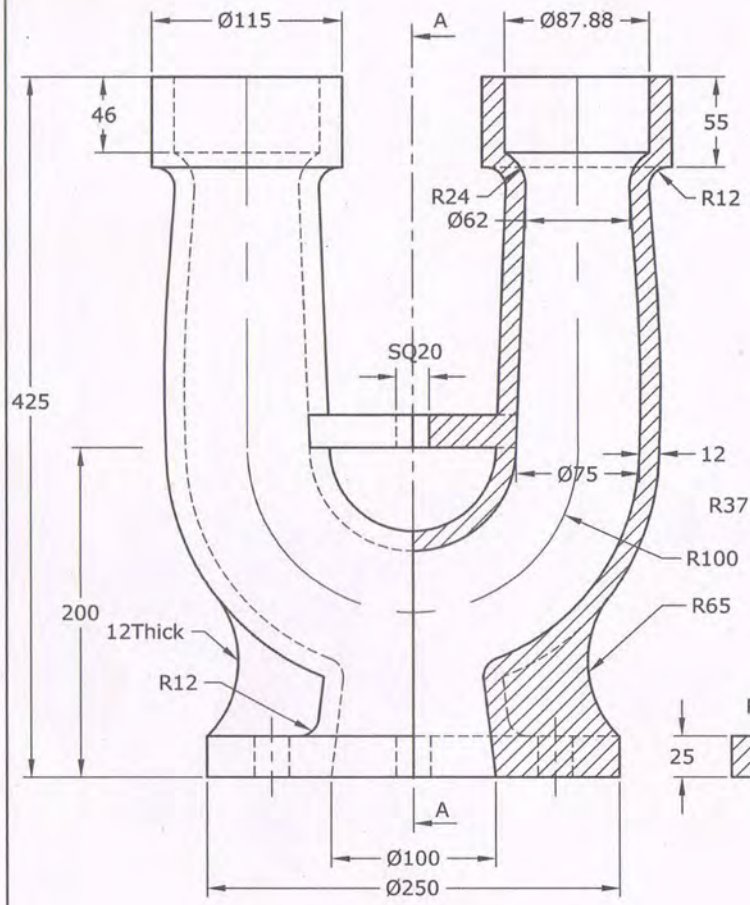
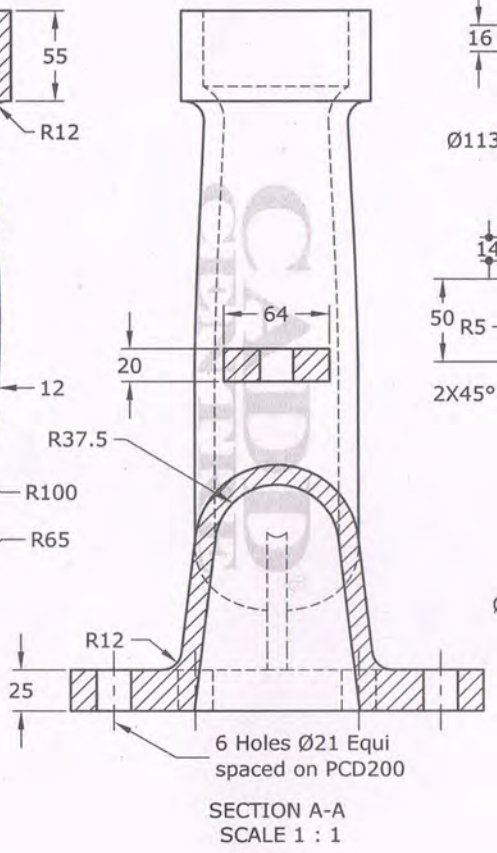
HATRONYKS

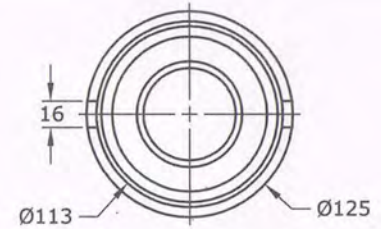
Project No: 0A0-000	File Name:
Duration: 120min	Actual Hours:

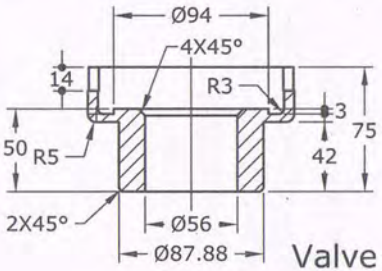


Body

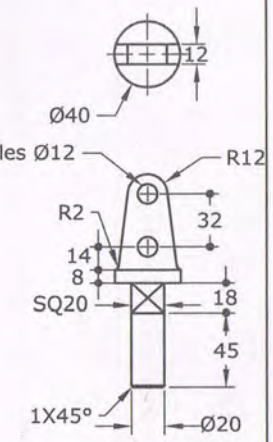


SECTION A-A
SCALE 1 : 1

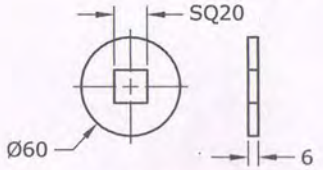




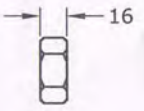
Valve seat



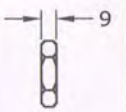
Shackle



Washer



Nut M20



LockNut
M20

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

	SHEET 01/05	Details of Body, Valve seat, Shackle, Washer, Nut M20, Lock Nut M20

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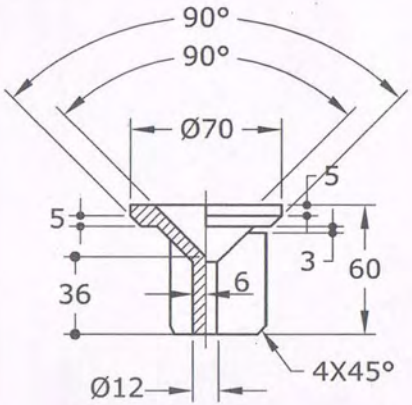
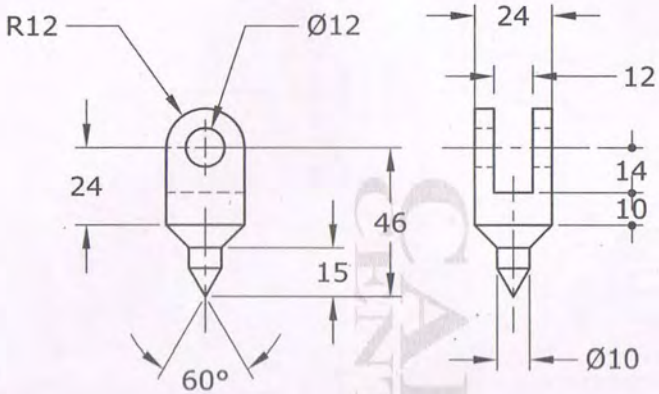
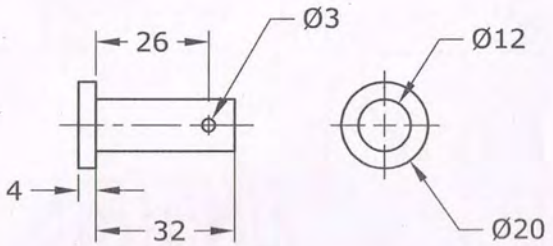
Project No: 0A0-000	File Name:
Duration: 90min	Actual Hours:

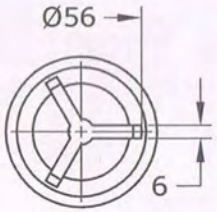




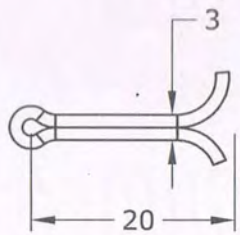
Pivot



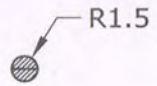
Pin

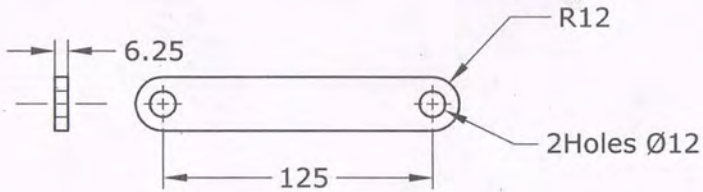


Valve



Split pin





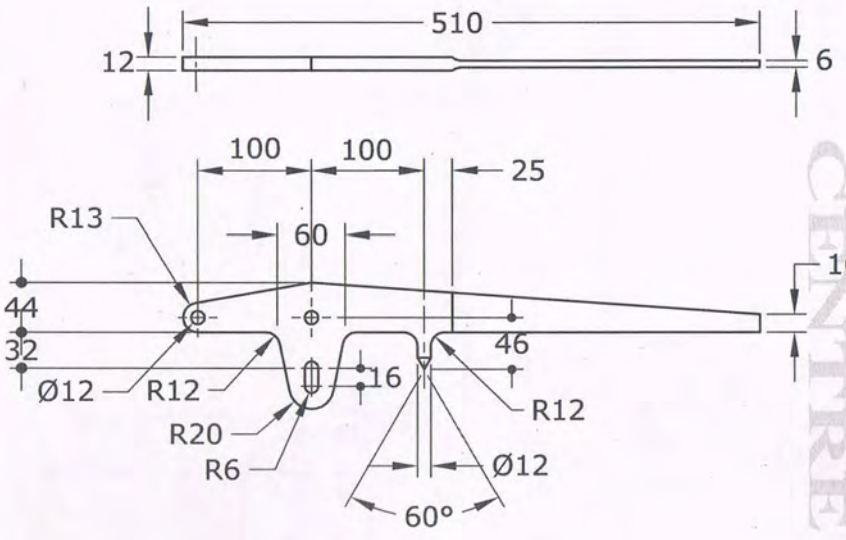
Link

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

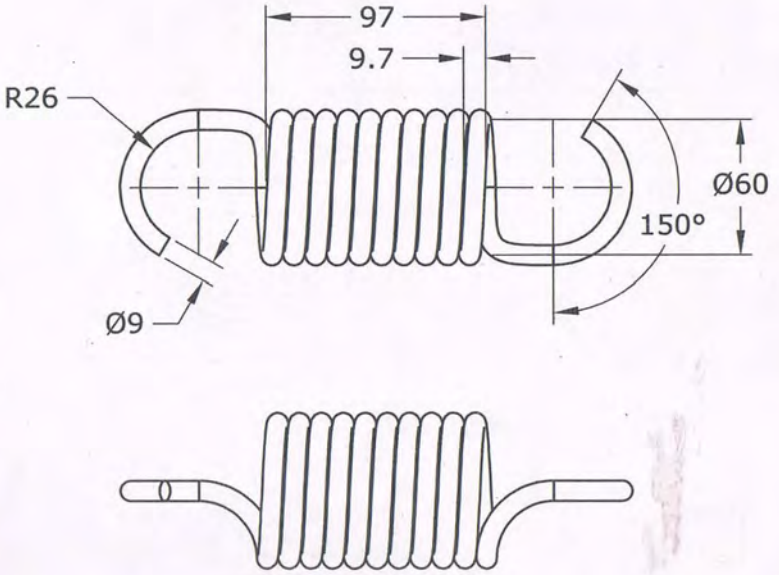
	SHEET 02/05	Details of Link,Pin, Split pin,Valve,Pivot

HATRONYKS
CADD CENTRE

Project No: 0A0-000	File Name:
Duration: 90min	Actual Hours:



Lever

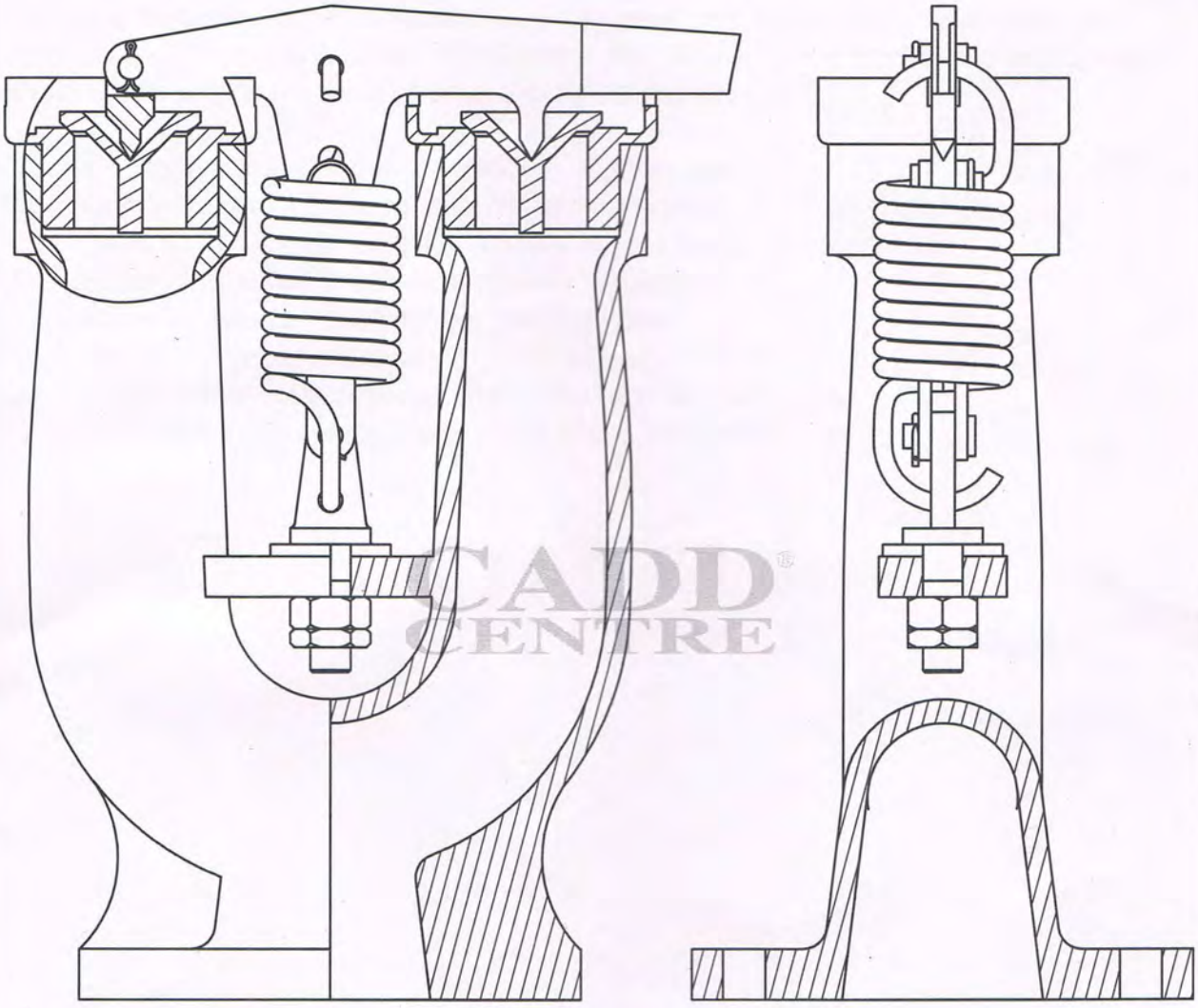


Spring

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	SHEET 03/05	Details of Lever, Spring

HATRONYKS
CADD CENTRE

Project No: 0A0-000	File Name:
Duration: 60min	Actual Hours:



CADD CENTRE

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	SHEET 04/05	Details of Rambottom Safety Valve assembled view

HATRONYKS

Project No: 0A0-010	File Name:
Duration: 300min	Actual Hours:

Directions: -

The objective of this project is to create a Machine vice. This is used for holding or clamping work piece to allow work to be performed on it with tools such as saws, mills, drills, screw drivers,sand paper etc. Machine vice is fixed to the work tables of planing, shaping and drilling machine etc., as a work holding device.

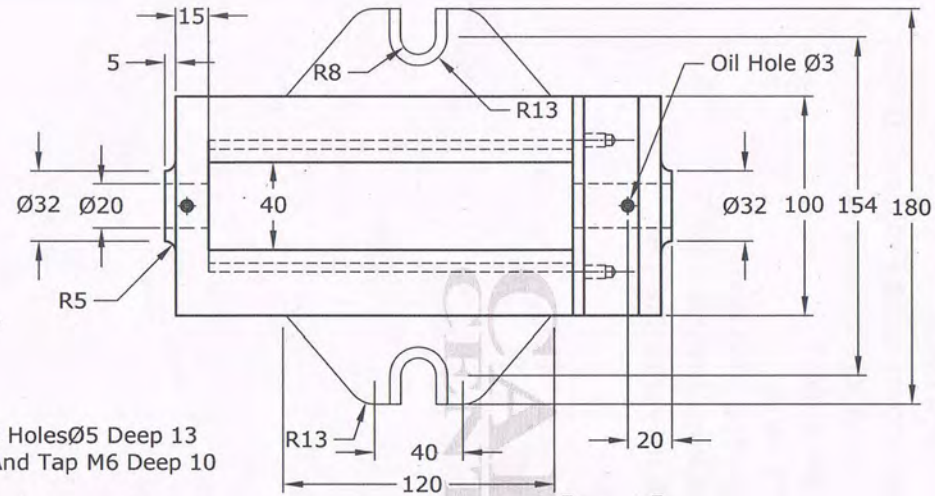
To complete the project follow the procedure given below: -

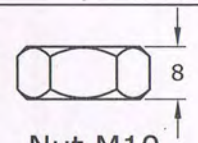
1. Create the parts from the detailed views shown in the Project 0A0-010.
2. Save each part with specified names in your locker/destined folder.
3. Strictly follow the dimensions given in the project.
4. Refer the design data book for standard parts.
5. Assign limit mate between Movable Jaw and Vice Body.
6. Apply Screw mate between Screw Rod and Movable Jaw.
7. Give feed to Screw Rod, and check the movement of Jaw.

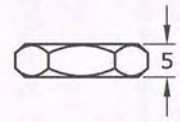
CADD® CENTRE

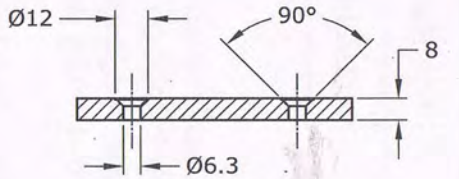
HATRONYKS

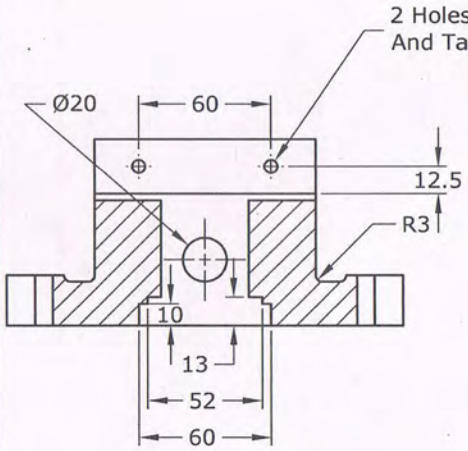
Project No: 0A0-010	File Name:
Duration: 120min	Actual Hours:

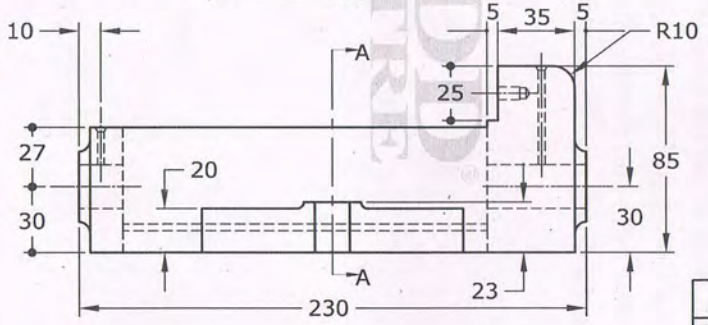


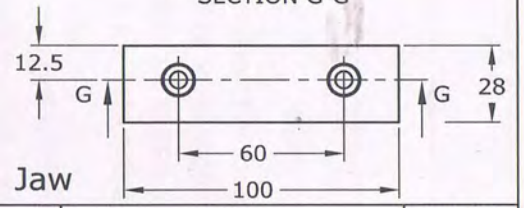


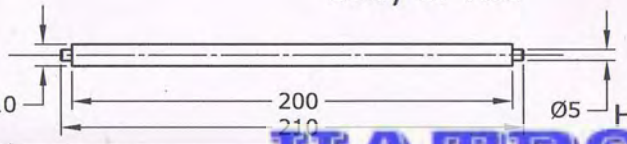










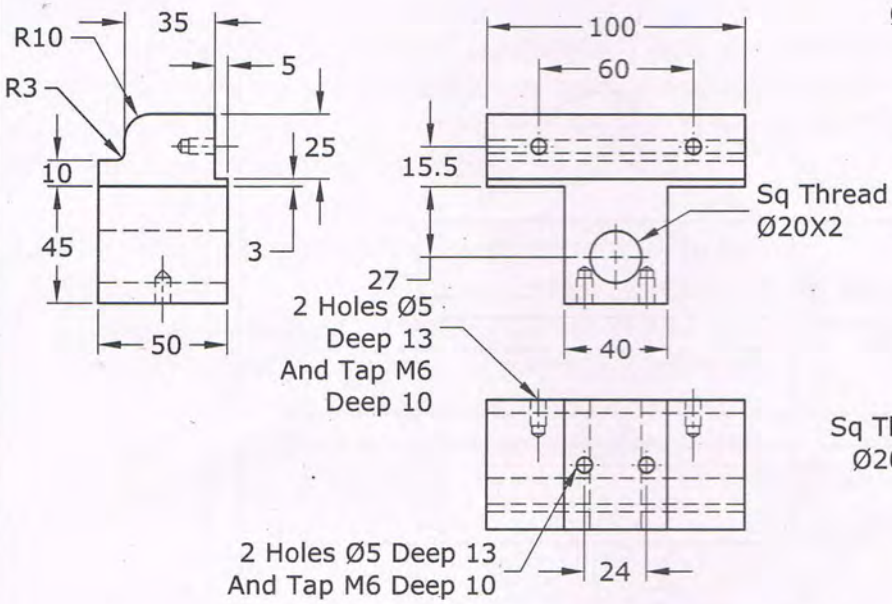


	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

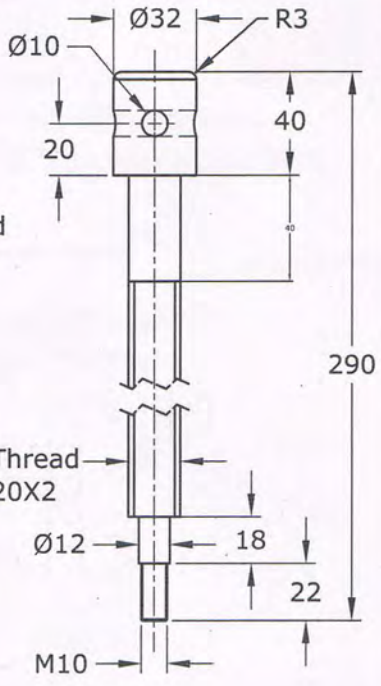
	SHEET 01/05	Details of Vice,Handle,Nut M10, Lock Nut M10,Jaw

HATRONYKS

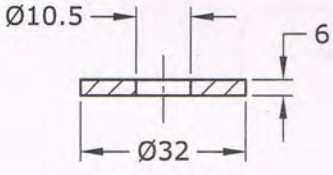
Project No: 0A0-010	File Name:
Duration: 120min	Actual Hours:



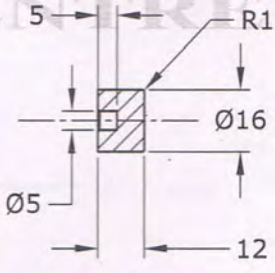
Movable Jaw



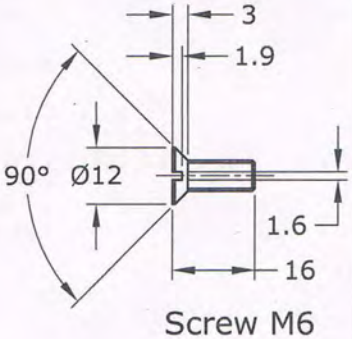
Screw rod



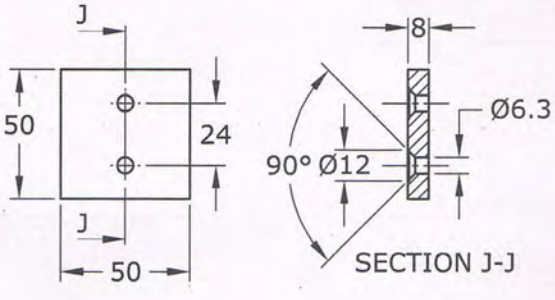
Washer



Handle cap



Screw M6

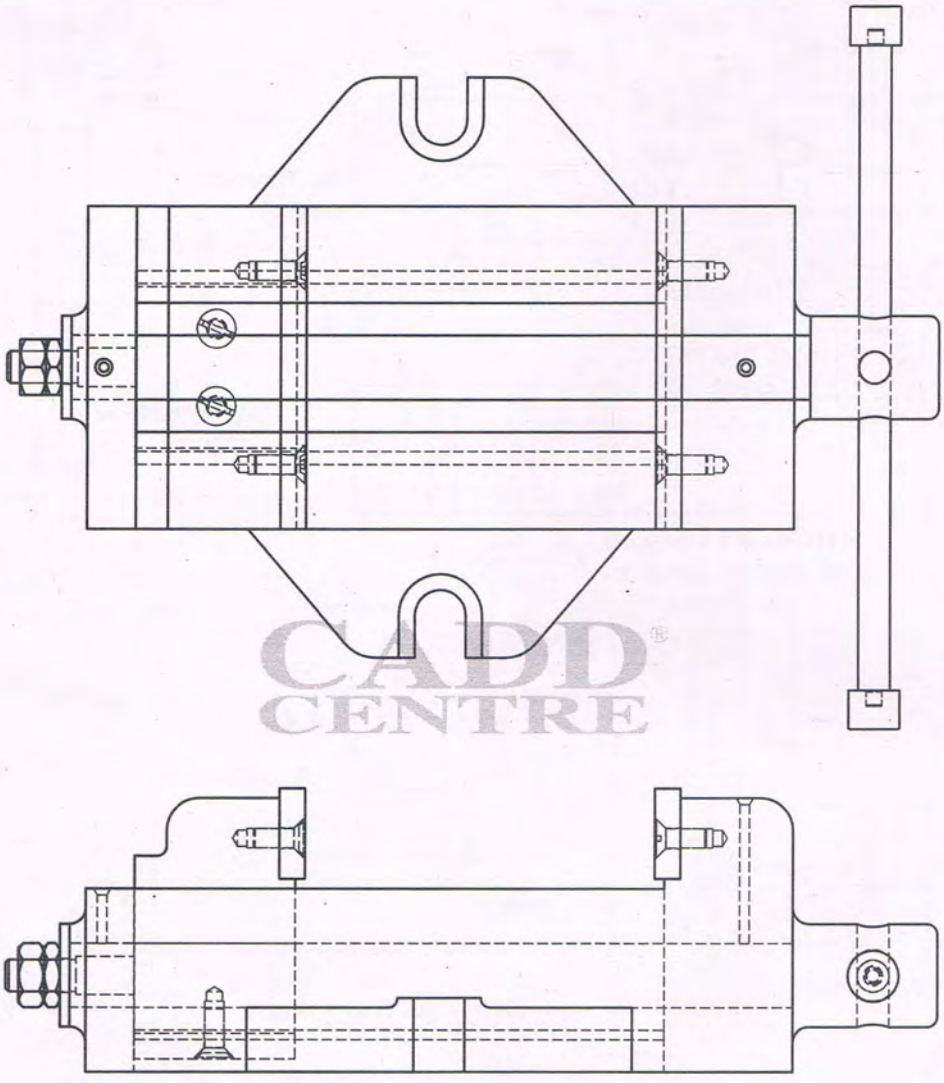


Clamping Plate

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	SHEET 02/05	Details of Movable Jaw, Screw rod, Washer, Handle cap, Screw, Clamping Plate

HATRONYKS

Project No: 0A0-010	File Name:
Duration: 60min	Actual Hours:



CADD CENTRE

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	SHEET 03/05	Detailed view of Machine vice

CADD CENTRE

HATRONYKS

Project No: 0A0-020	File Name:
Duration: 395min	Actual Hours:

Directions: -

The objective of this project is to create Tool Head of a shaping machine. Tool head of a shaping machine comprises of the tool holding and feeding devices with additional arrangement to set them inclined to the vertical. The Tool head is mounted on the front end of the ram of Shaping machine.

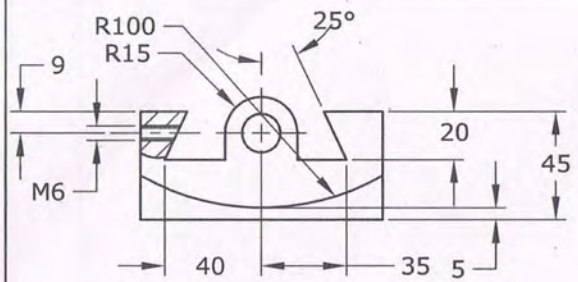
To complete the project follow the procedure given below: -

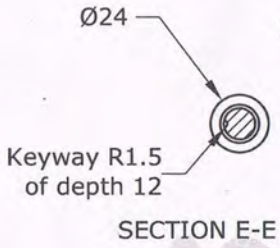
1. Create the parts from the detailed views shown in the Project 0A0-020.
2. Save each part with specified names in your locker/destined folder.
3. Strictly follow the dimensions given in the project.
4. Refer the design data book for standard parts.
5. Detect interference volume between components.

CADD® CENTRE

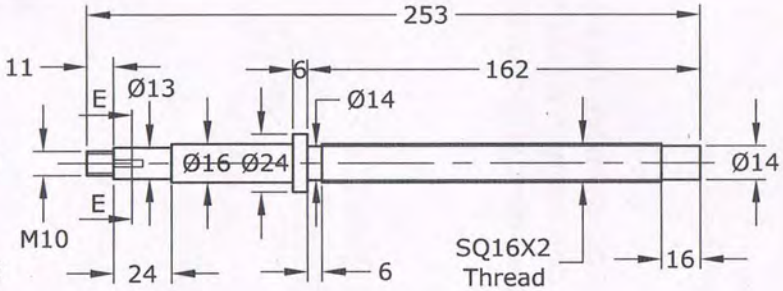
HATRONYKS

Project No: 0A0-020	File Name:
Duration: 100min	Actual Hours:

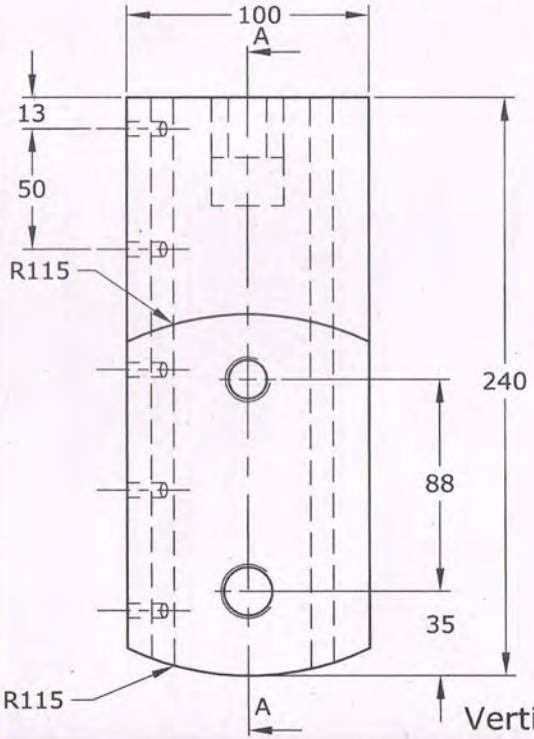


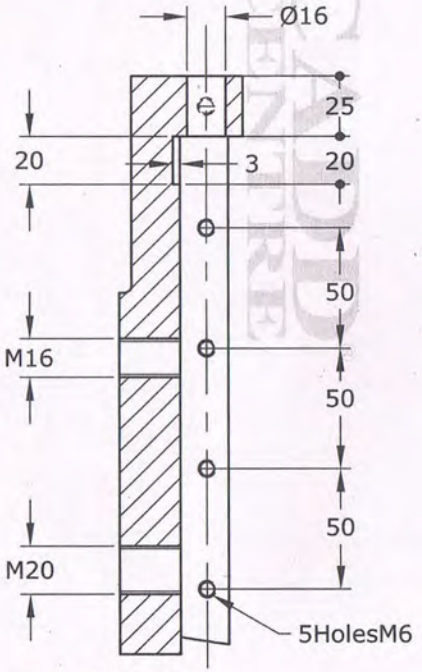


SECTION E-E

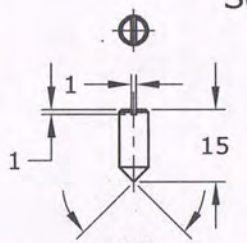


Screw Rod

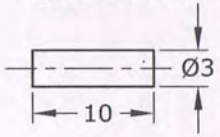




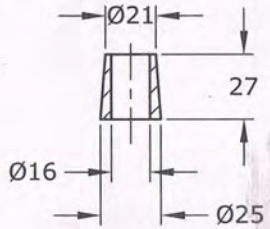
Vertical Slide SECTION A-A



Grub Screw M6



Round Key



Spacer Bush

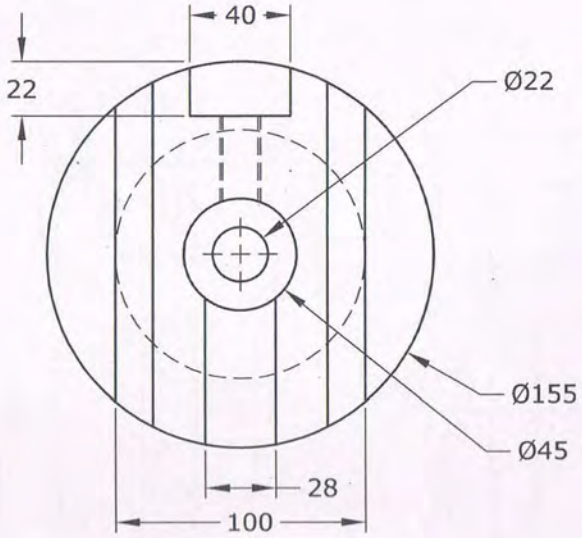
	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

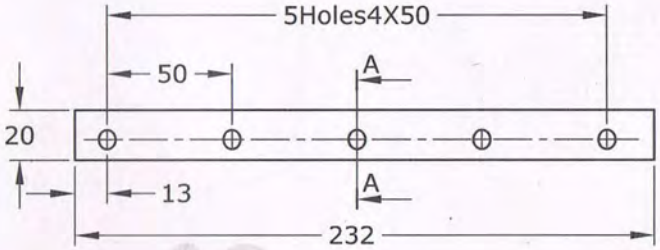
	SHEET 01/07	Details of Vertical Slide, Screw rod,Grub Screw, Spacer Bush, Round Key

HATRONYKS

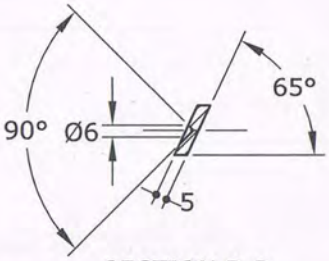
CADD CENTRE

Project No: 0A0-020	File Name:
Duration: 100min	Actual Hours:

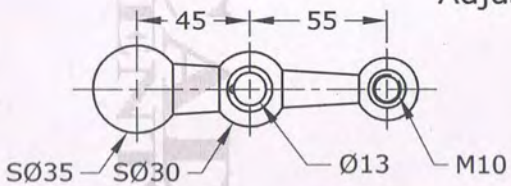


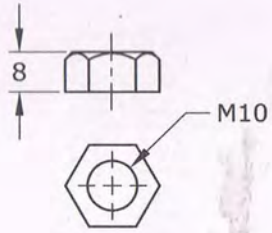


Adjustable Strip

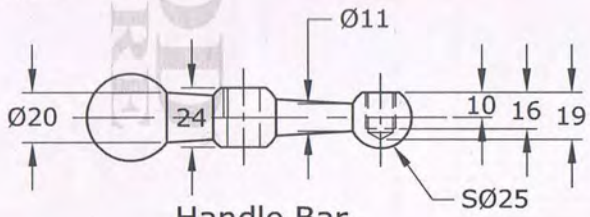


SECTION B-B

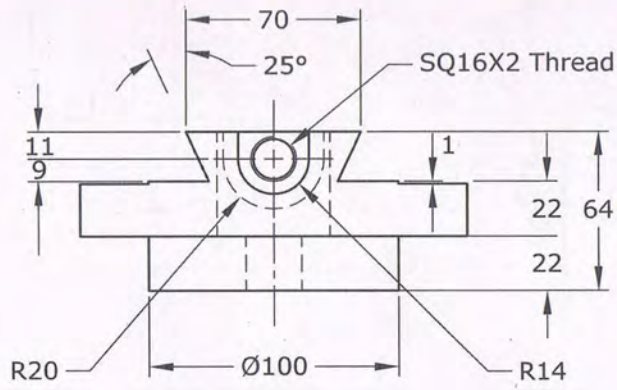




Nut



Handle Bar

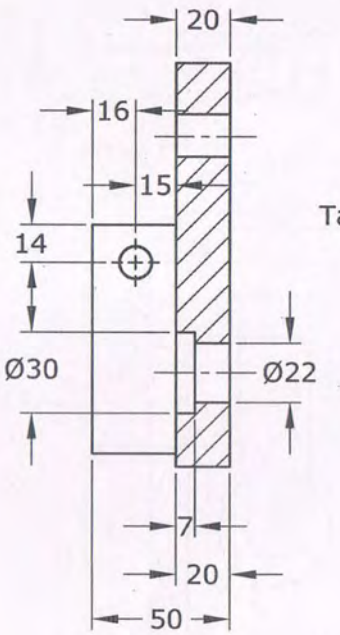


Back Plate

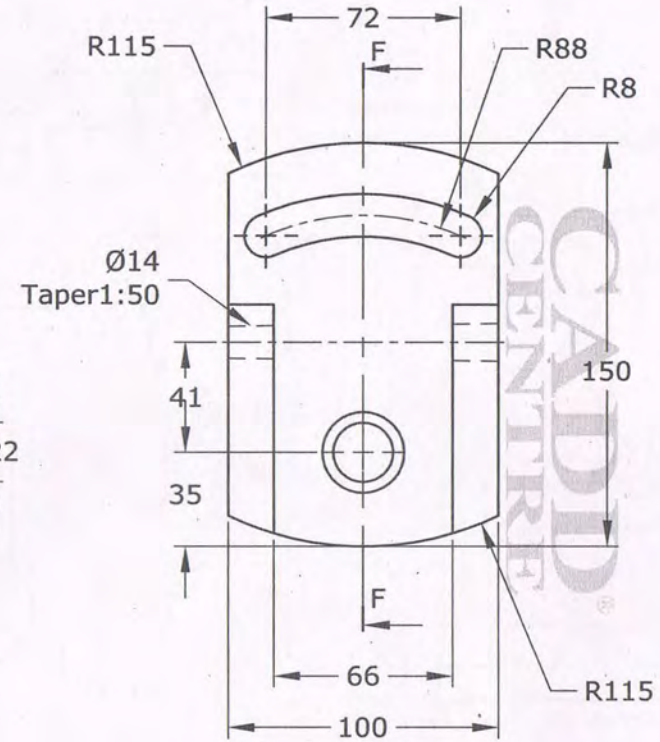
	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	SHEET 02/07	Details of BackPlate, Adjustable Strip, Handle Bar, Nut

HATRONYKS
CADD CENTRE

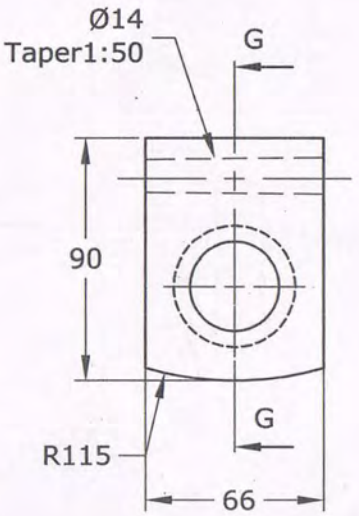
Project No: 0A0-020	File Name:
Duration: 60min	Actual Hours:



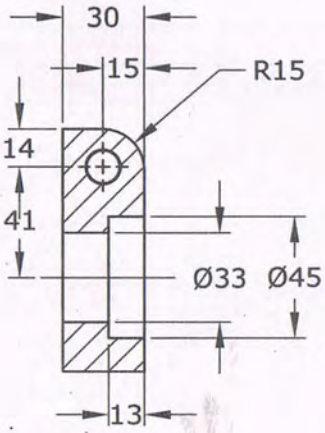
SECTION F-F



Swivel Plate



Drag Plate

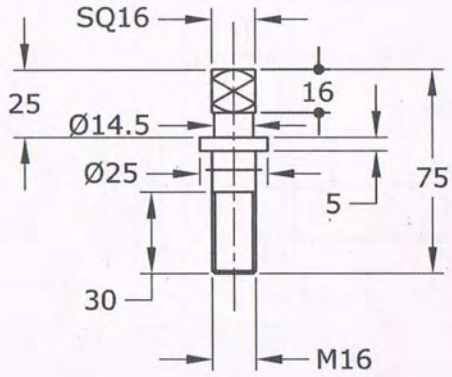


SECTION G-G

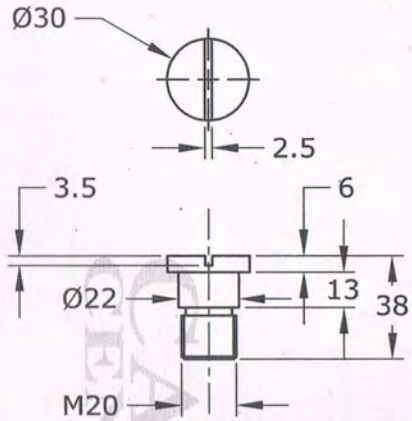
	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	SHEET 03/07	Details of Swivel Plate, Drag Plate

CADD CENTRE
HATRONYKS
CAPP

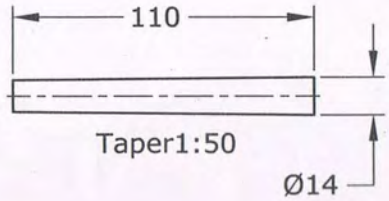
Project No: 0A0-020	File Name:
Duration: 45min	Actual Hours:



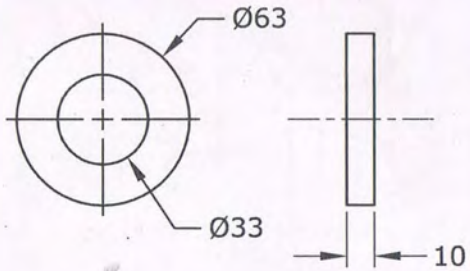
Clamping Screw



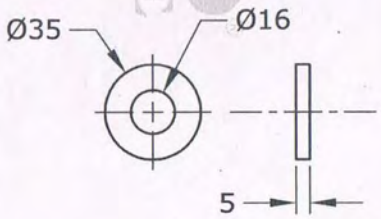
Swivel Screw Pin



Pivot Pin



Washer



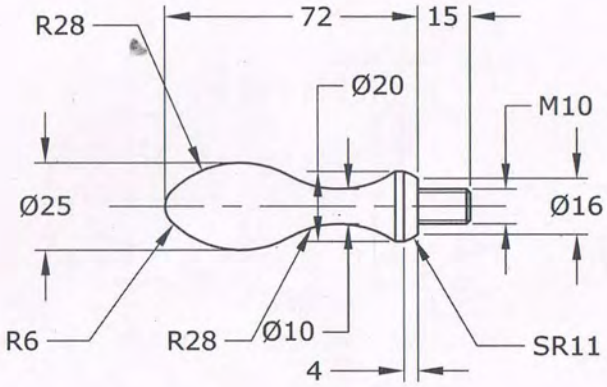
Washer

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

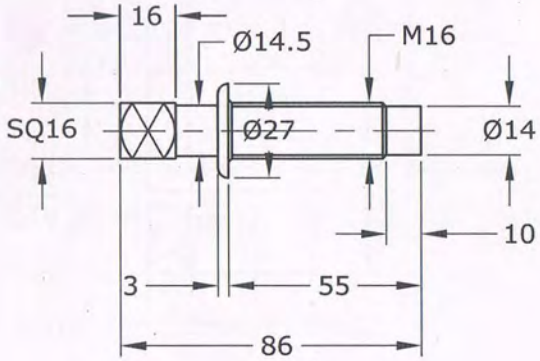
	SHEET 04/07	Details of Clamping Screw,Swivel Screw Pin,Pivot Pin,Washer

HATRONYKS
CADD CENTRE

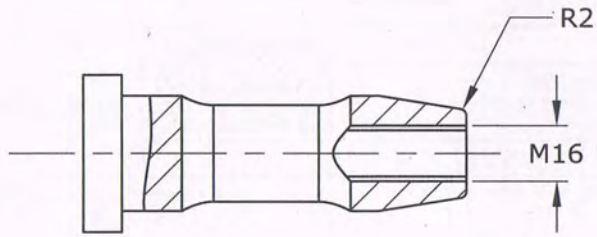
Project No: 0A0-020	File Name:
Duration: 60min	Actual Hours:

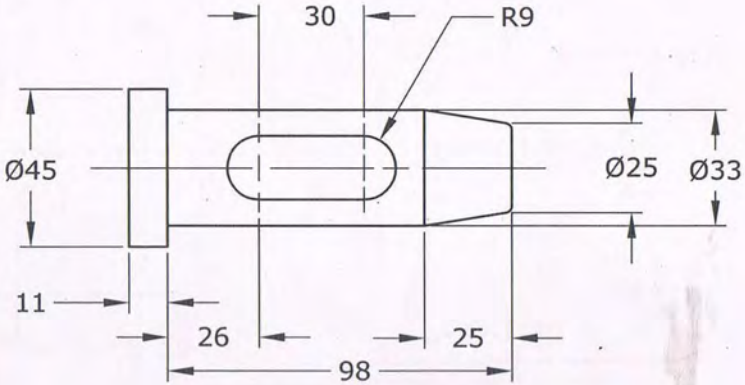


Handle



Tool Fixing Screw





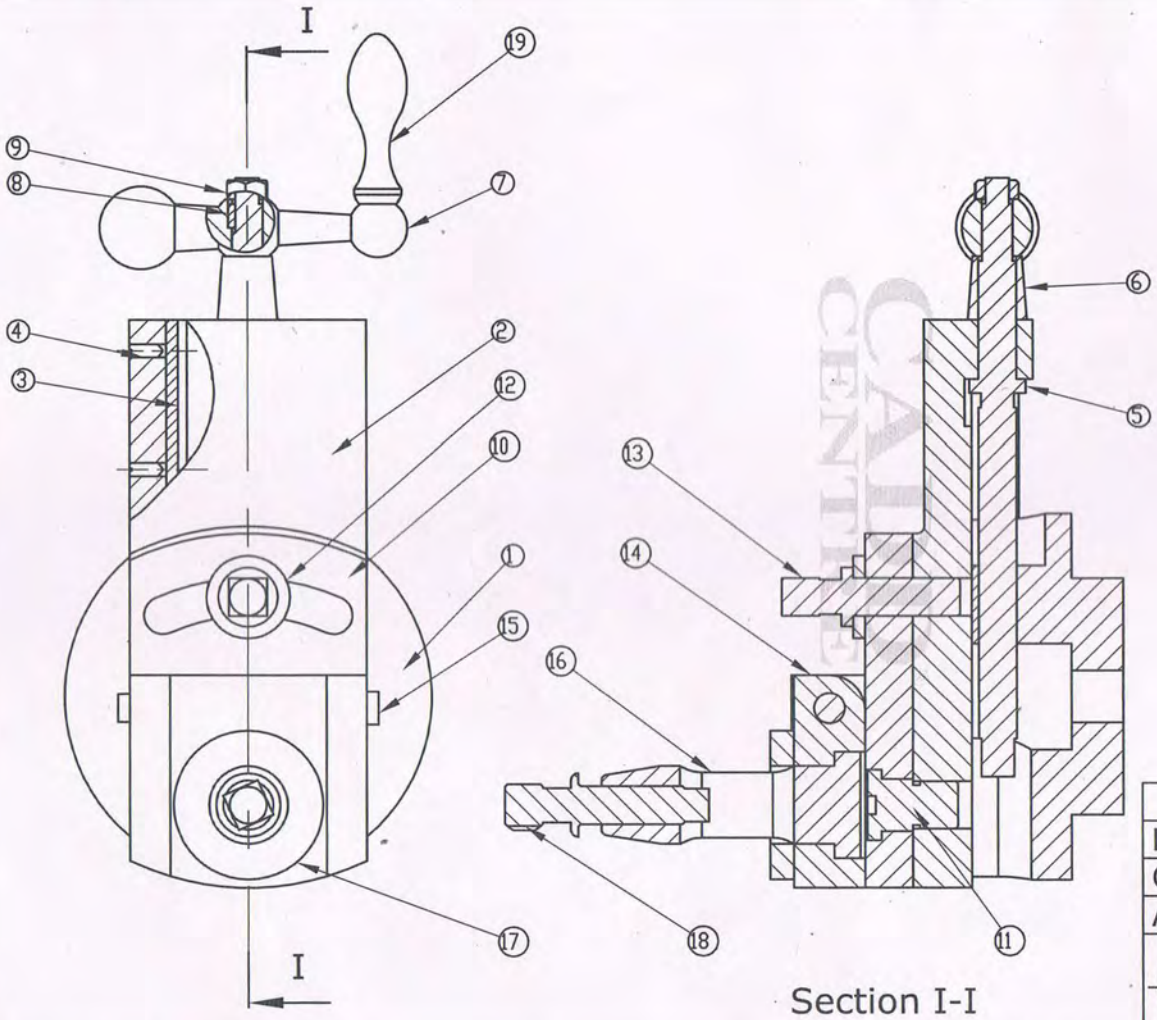
Tool Holder

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	SHEET 05/07	Details of Handle, Tool Fixing Screw, Tool Holder

CADD CENTRE

HATRONYKS

Project No: 0A0-020	File Name:
Duration: 30min	Actual Hours:



Section I-I

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

	SHEET 06/07	Details of assembly of Tool Head of Shaping Machine

HATRONYKS
CADD CENTRE

Surface Modeling

HATRONYKS

Exercise No: 01	File Name:
Duration: 60min	Actual Hours:

Directions: -

The objective of this project is to create semi finished bottom casing of a iPhone 3G using surface tools. iPhone 3G is an internet and multimedia enabled smart phone.

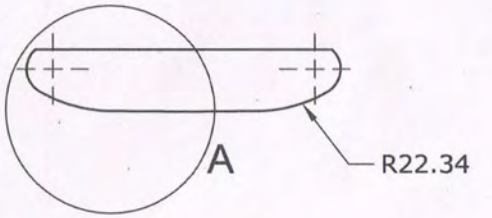
To complete the project follow the procedure given below: -

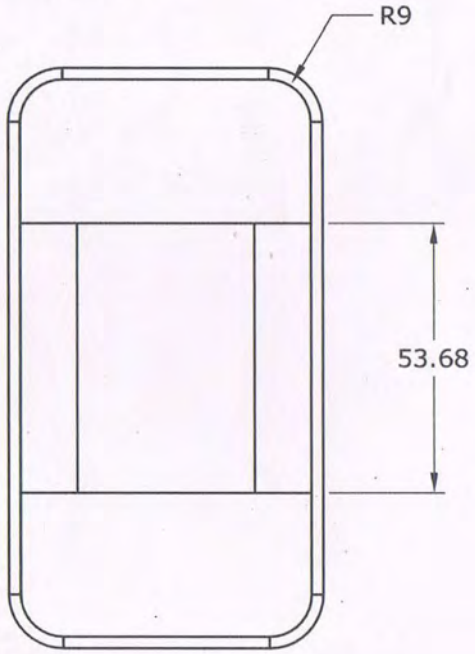
1. Create surface features from iPhone bottom casing detail views.
2. Use Extrude, Sweep, Fill surfaces to design the component.
3. Join all the surfaces using Knit surface command.
4. Apply thickness to the surface using Thicken command.
5. Check curvature discontinuities along surfaces .
6. Strictly follow the dimensions given.

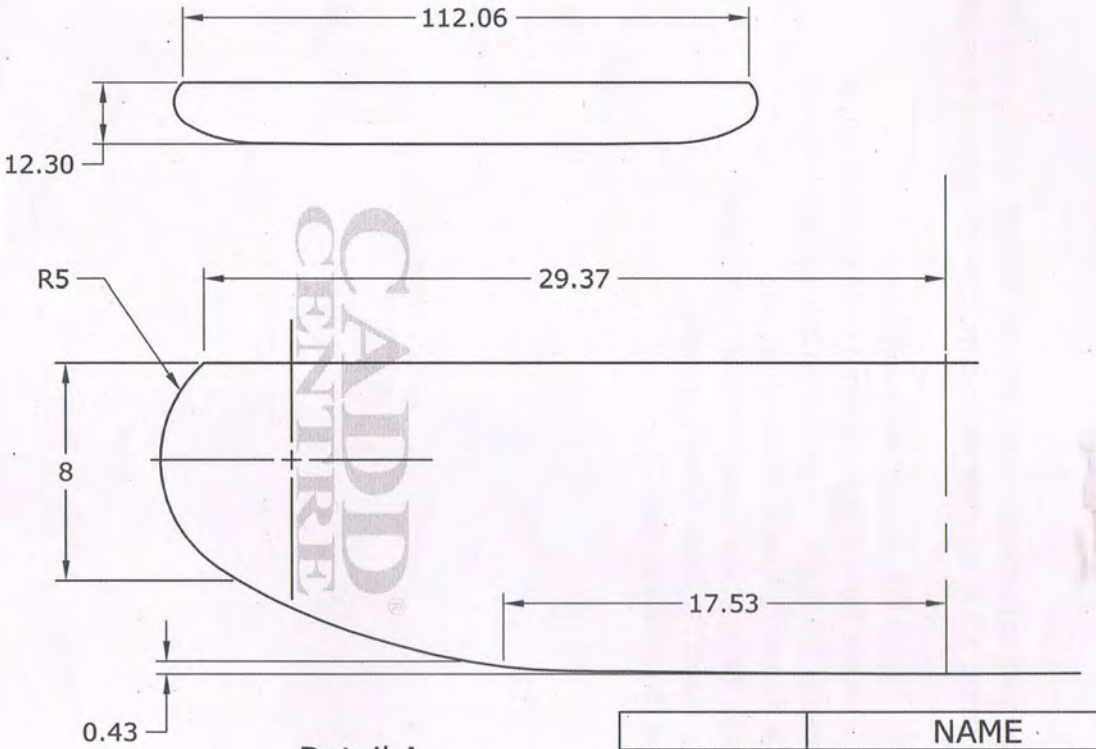
CADD CENTRE

HATRONYKS

Exercise No: 01	File Name:
Duration: 60min	Actual Hours:







Detail A
Scale 5:1

	NAME	DATE
DESIGNED		
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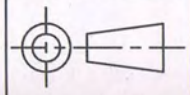
APPROVED		



Details of semi finished bottom casing of a iphone

CADD CENTRE
HATRONYKS
CADD

Exercise No: 02	File Name:
Duration: 60min	Actual Hours:

Directions: -

The objective of this project is to create semi finished top casing of a mouse using surface tools. A mouse is a pointing device that functions by detecting two dimensional motion relative to its supporting surface.

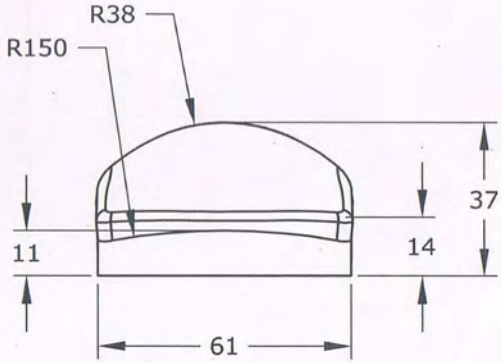
To complete the project follow the procedure given below: -

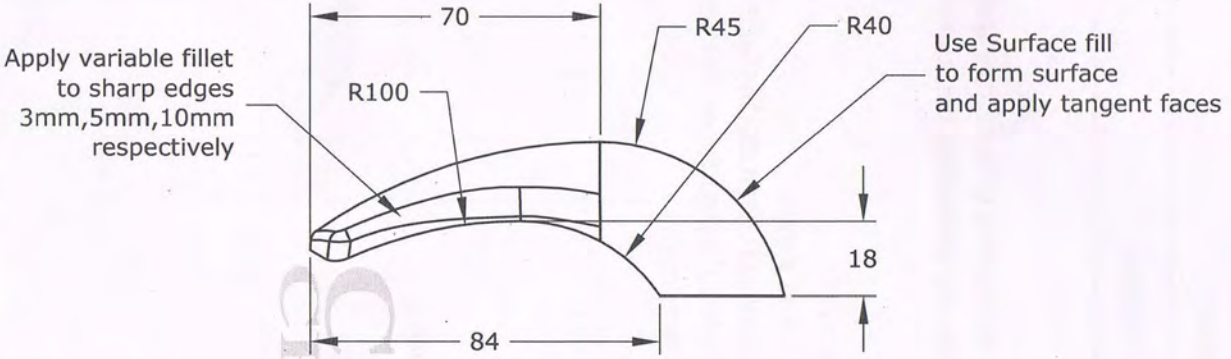
1. Create surface features from mouse top casing detail views.
2. Use the following tools to design: - Split curve,3D sketch,Extrude,Surface trim,Variable radius fillet,draft,Loft,Mirror,Fill surfaces,Knit surfaces,thicken.
3. Apply tangency to the lofted surfaces wherever required.
4. Check curvature discontinuities along surfaces .
5. Strictly follow the dimensions given.

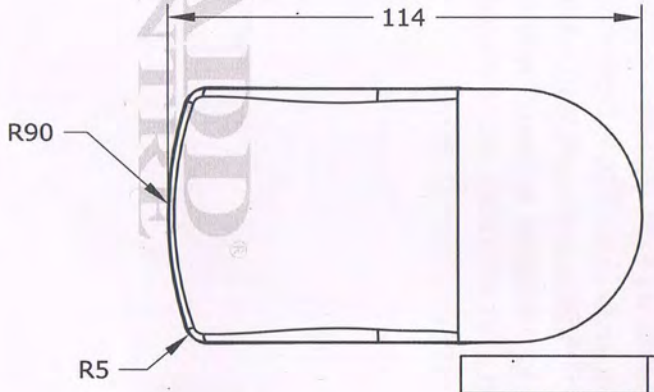
CADD CENTRE

HATRONYKS

Exercise No: 02	File Name:
Duration: 60min	Actual Hours:







CADD CENTRE®

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

Details of semi finished top casing of a mouse

HATRONYKS

Exercise No: 03	File Name:
Duration: 60min	Actual Hours:

Directions: -

The objective of this project is to create semi finished helmet model using surface tools. A helmet is a form of protective gear worn on the head to protect it from injuries.

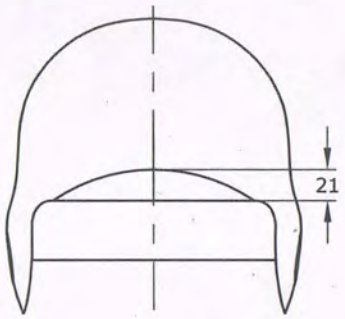
To complete the project follow the procedure given below: -

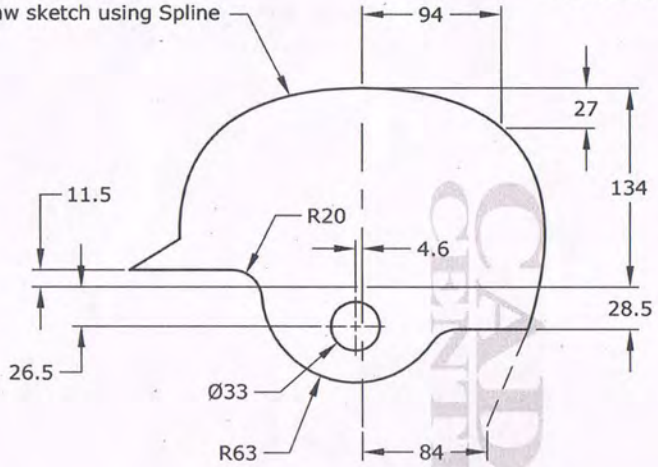
1. Create loft surface using four profiles and one guide curve.
2. Trim the surface using sketch as trim tool.
3. Use boundary surface command to form surface and apply tangency along surfaces.
4. Check curvature discontinuities along surfaces .
5. Strictly follow the dimensions given.

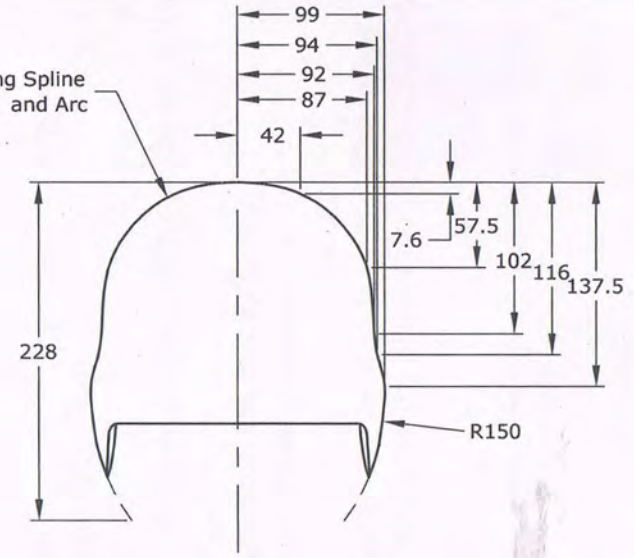
CADD CENTRE

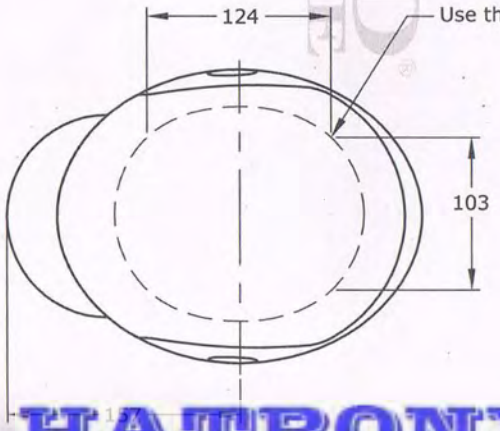
HATRONYKS

Exercise No: 03	File Name:
Duration: 60min	Actual Hours:









	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	Details of semi finished helmet model	

CADD CENTRE
HATRONYKS
CADD

Exercise No: 04	File Name:
Duration: 60min	Actual Hours:

Directions: -

The objective of this project is to create semi finished water storage container.

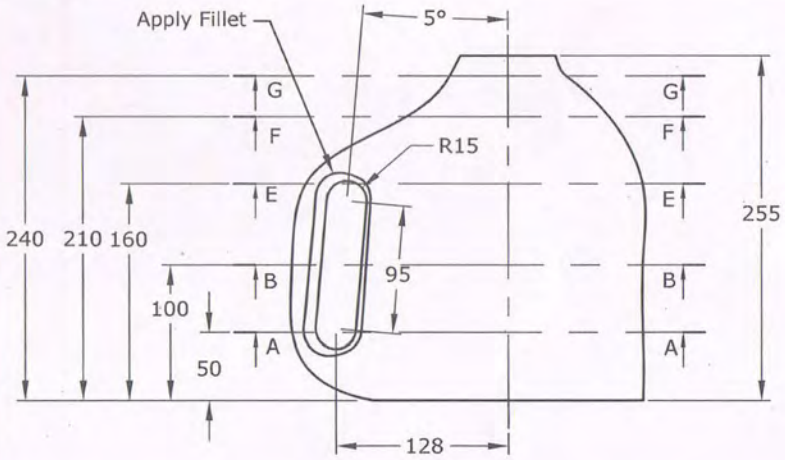
To complete the project follow the procedure given below: -

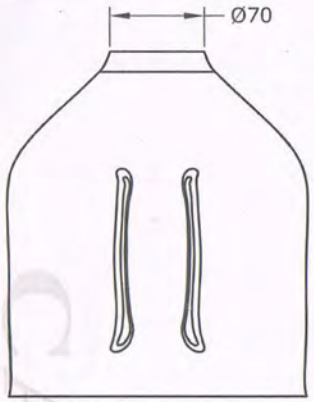
1. Study the details of Water container given in the exercise.
2. Using appropriate surface tools create water container.
3. Knit all the surfaces and apply thickness.
4. Check curvature discontinuities along surfaces .
5. Strictly follow the dimensions given.

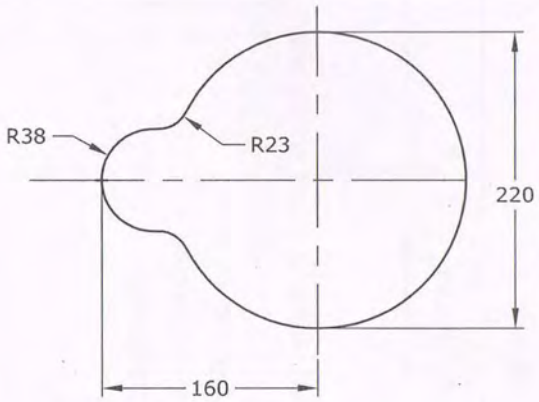
CADD CENTRE

HATRONYKS

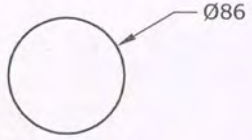
Exercise No: 04	File Name:
Duration: 60min	Actual Hours:



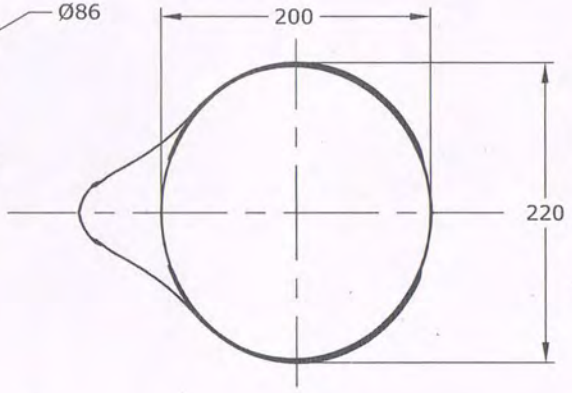


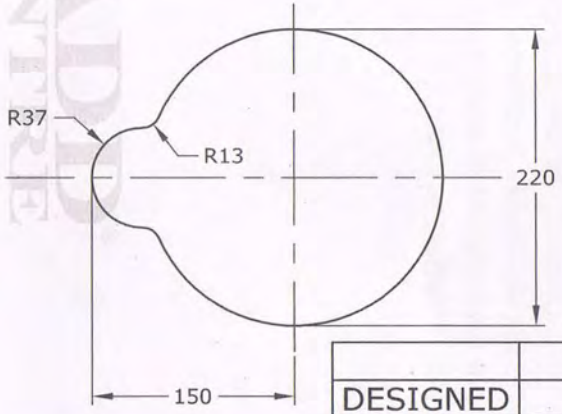


SECTION A-A & SECTION B-B
SCALE 1 : 1

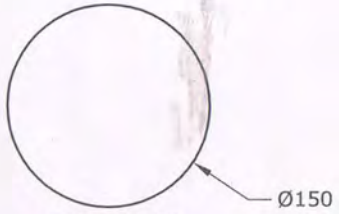


SECTION G-G
SCALE 1 : 1





SECTION E-E
SCALE 1 : 1



SECTION F-F
SCALE 1 : 1

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	Details of semi finished water container	

CADD CENTRE
HATRONYKS
CADD

Sheet Metal Designing

HATRONYKS

Exercise No: 01	File Name:
Duration: 45min	Actual Hours:

Directions: -

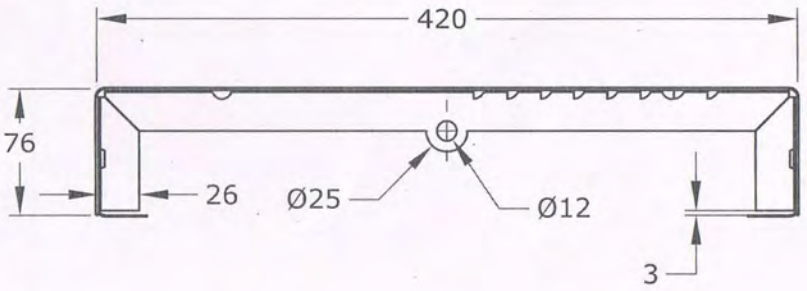
The objective of this project is to create a stereo cover.

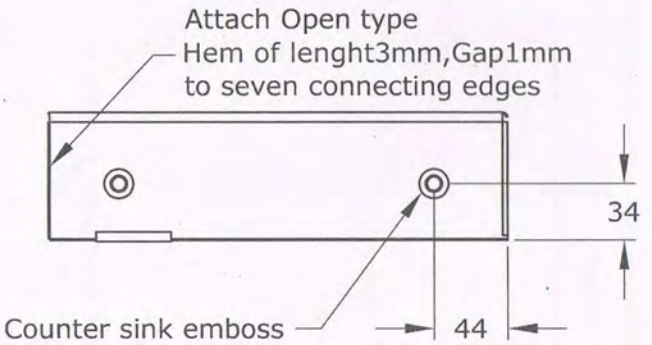
1. Use following parameters design the sheetmetal body
   - 1.1. Bend radius:5mm
   - 1.2. Thickness:0.75mm
   - 1.3. K-Factor:0.4
   - 1.4. Relief:Tear
   - 1.5. Hem type:Open with 1mm miter gap
2. Strictly follow the dimensions given.
3. Use Counter sink emboss2 and Louver forming tool from design library.
4. Create flat pattern for the created sheetmetal body.

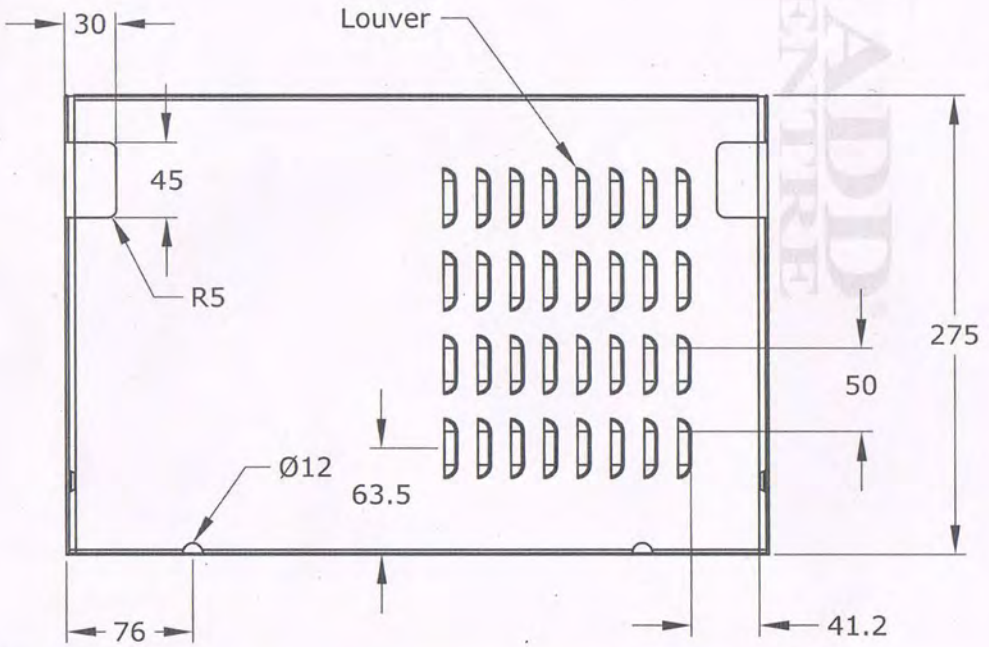
CADD CENTRE

HATRONYKS

Exercise No: 01	File Name:
Duration: 45min	Actual Hours:







	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

Details of Stereo cover

CADD CENTRE
HATRONYKS
CADD CENTRE

Exercise No: 02	File Name:
Duration: 60min	Actual Hours:

Directions: -

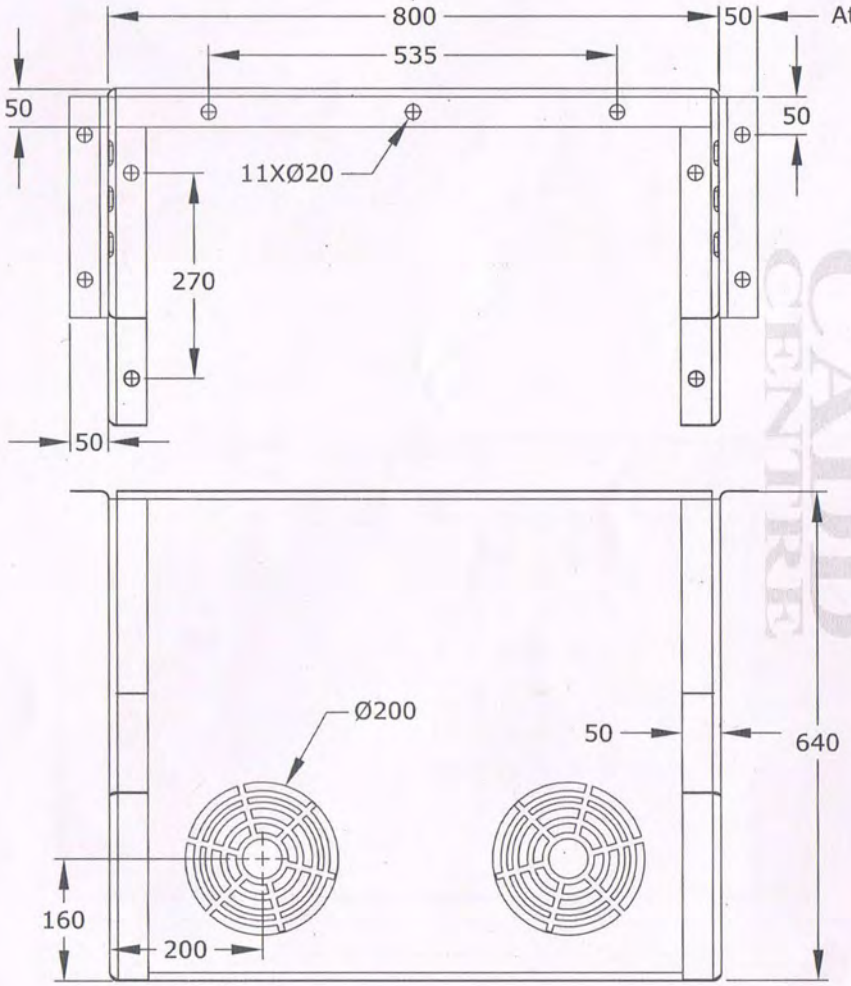
The objective of this project is to create a sheetmetal body required for an electronic device.

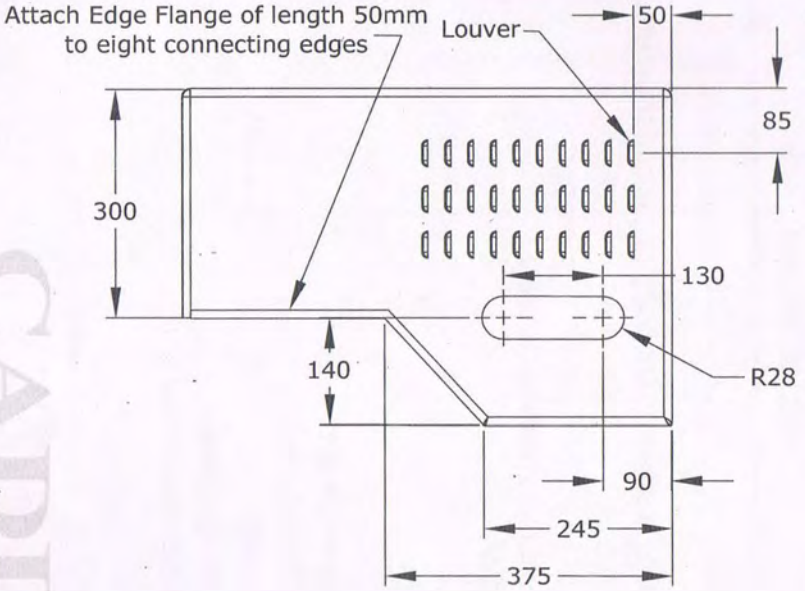
1. Use following parameters design the sheetmetal body
   - 1.1. Bend radius:10mm
   - 1.2. Thickness:1mm
   - 1.3. K-Factor:0.5
   - 1.4. Relief:Rectangular
   - 1.5. Hem type:Open with 1mm miter gap
2. Create vent of width8mm and depth1mm.
3. Strictly follow the dimensions given.
4. Use Louver forming tool from design library.
5. Create flat pattern for the created sheetmetal body.

CADD CENTRE

HATRONYKS

Exercise No: 02	File Name:
Duration: 60min	Actual Hours:





	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

Details of a semi finished sheetmetal body of a electronic device

CADD CENTRE
HATRONYKS

Project No: 0A0-030	File Name:
Duration: 155min	Actual Hours:

Directions: -

The objective of this project is to create a sheetmetal body required for a SMPS (Switch Mode Power Supply) in a computer.

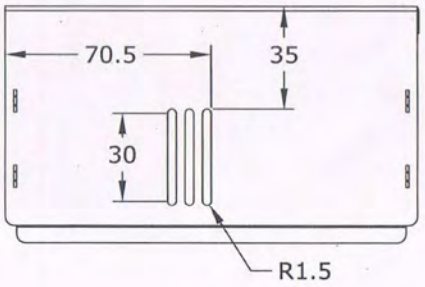
To complete the project follow the direction given below.

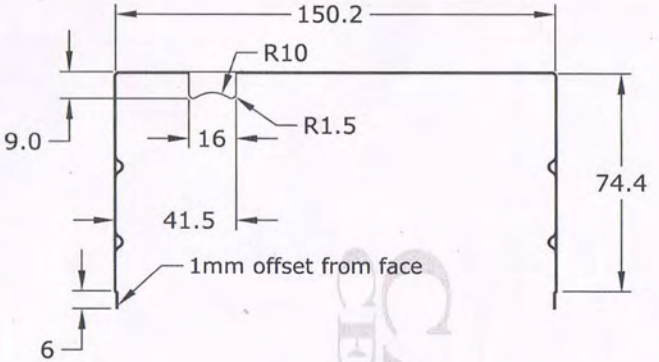
1. Use following parameters to design the sheetmetal body
   - 1.1. Bend radius:1mm
   - 1.2. Thickness:0.5mm
   - 1.3. K-Factor:0.5
   - 1.4. Relief:Rectangular
2. Create forming features and add to design library, insert in sheetmetal body.
3. Strictly follow the dimensions given.
4. Create flat pattern for the created sheetmetal body.

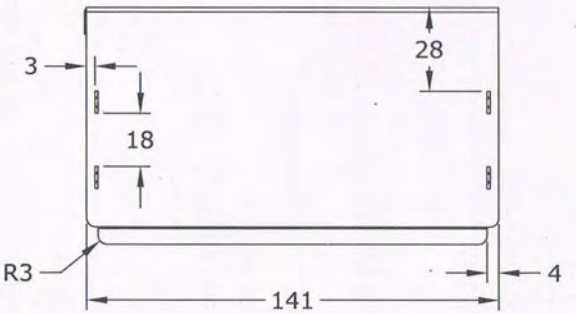
CADD CENTRE

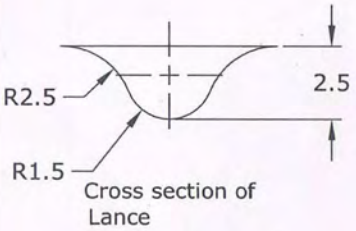
HATRONYKS

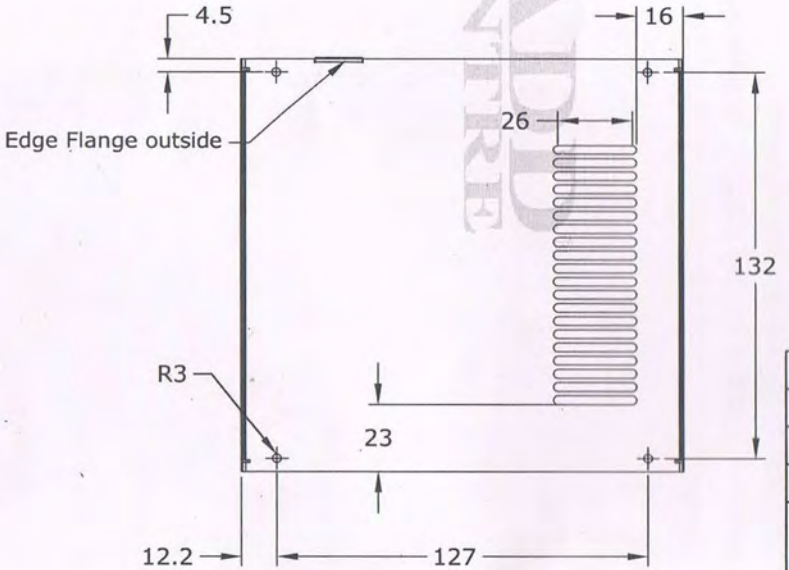
Project No: 0A0-030	File Name:
Duration: 50min	Actual Hours:











	NAME	DATE
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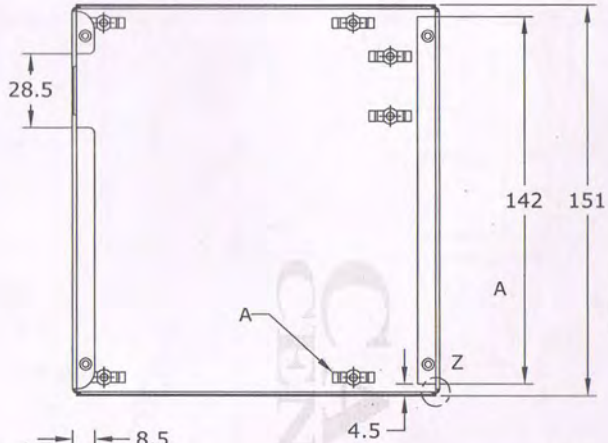
APPROVED		

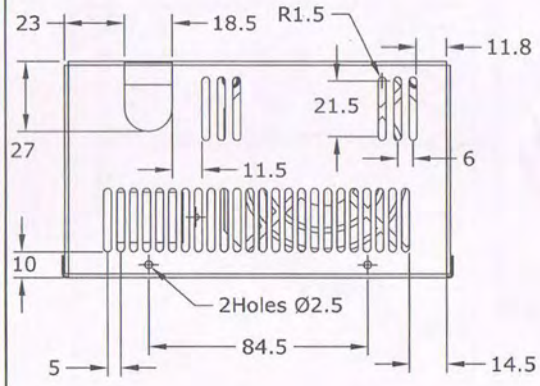
	SHEET 01/05	Details of SMPS Top Cover

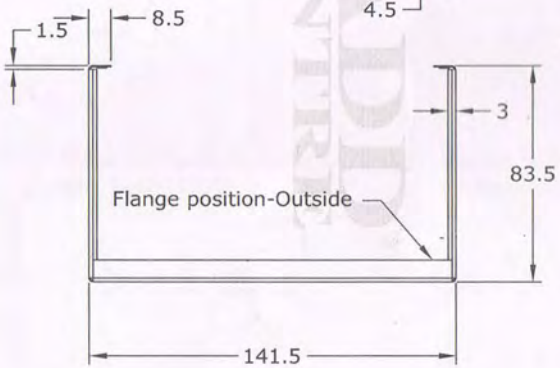
HATRONYKS

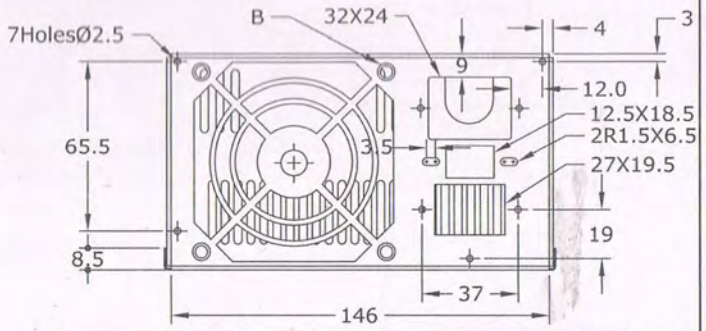
CADD CENTRE

Project No: 0A0-030	File Name:
Duration: 45min	Actual Hours:







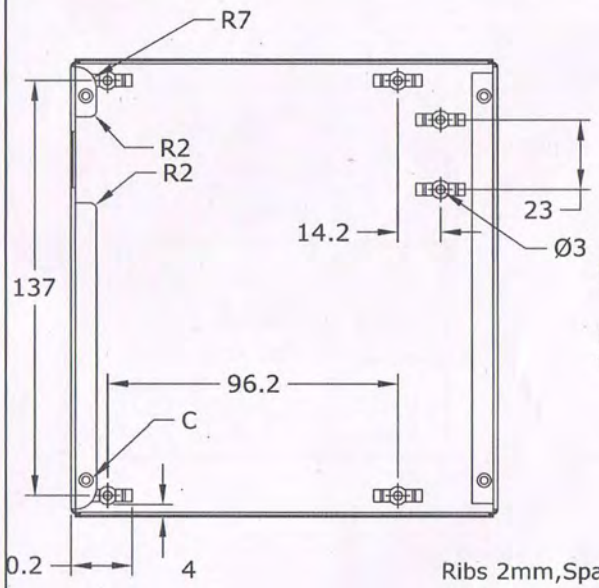


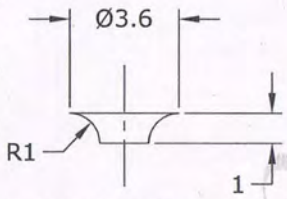
	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

	SHEET 02/05	Details of SMPS Bottom cover

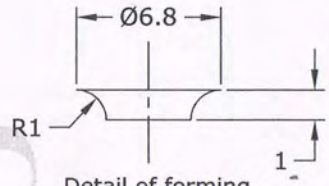
HATRONYKS
CADD CENTRE

Project No: 0A0-030	File Name:
Duration: 45min	Actual Hours:

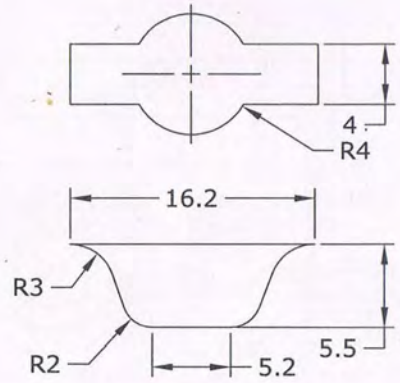




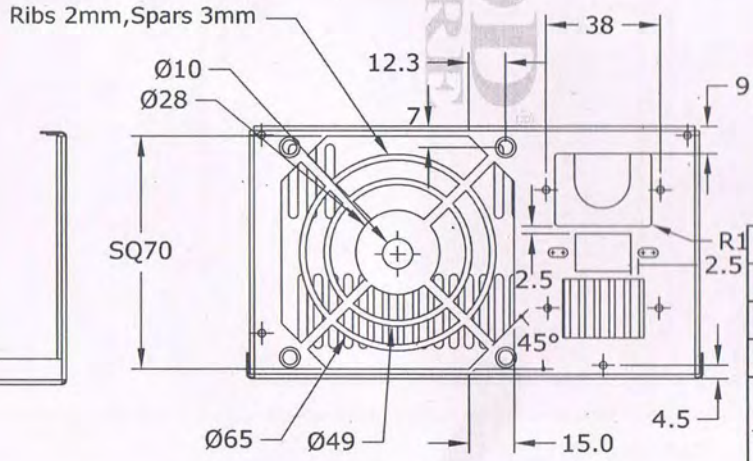
Detail of forming feature required at location C



Detail of forming feature required at location B



Detail of forming feature required at location A

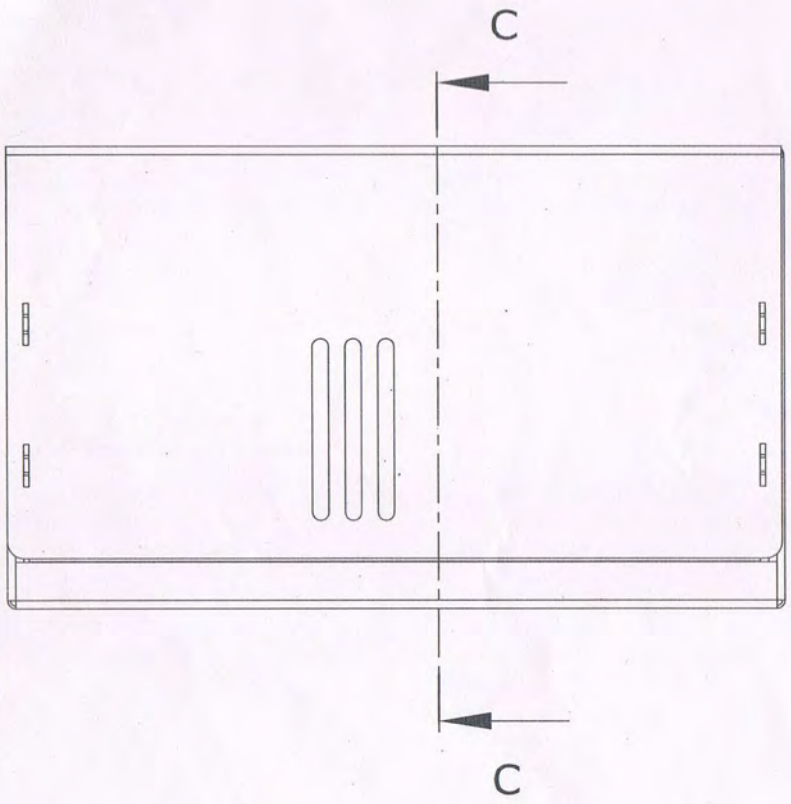


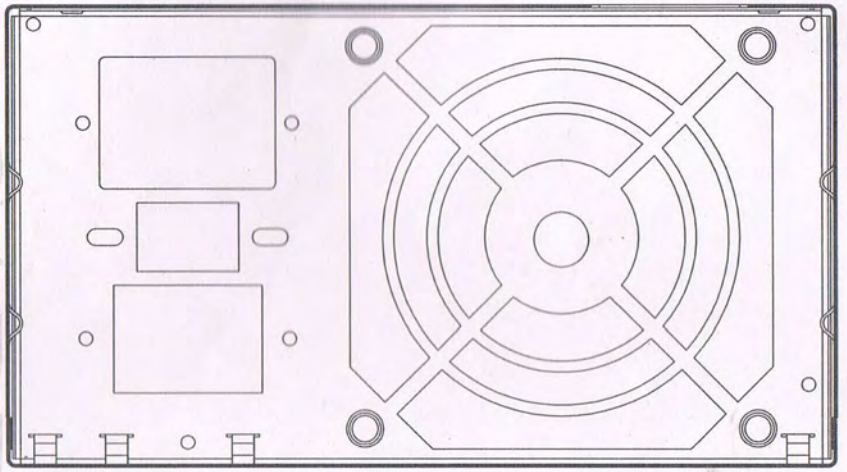
	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

	SHEET 03/05	Details of SMPS Bottom Cover

HATRONYKS
CADD CENTRE

Project No: 0A0-030	File Name:
Duration: 15min	Actual Hours:





SECTION C-C

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		
	SHEET 04/05	Details of assembly of SMPS sheetmetal cover

HATRONYKS
CADD CENTRE

Detailing

HATRONYKS

Project No: 0A0-000	File Name:
Duration: 100min	Actual Hours:

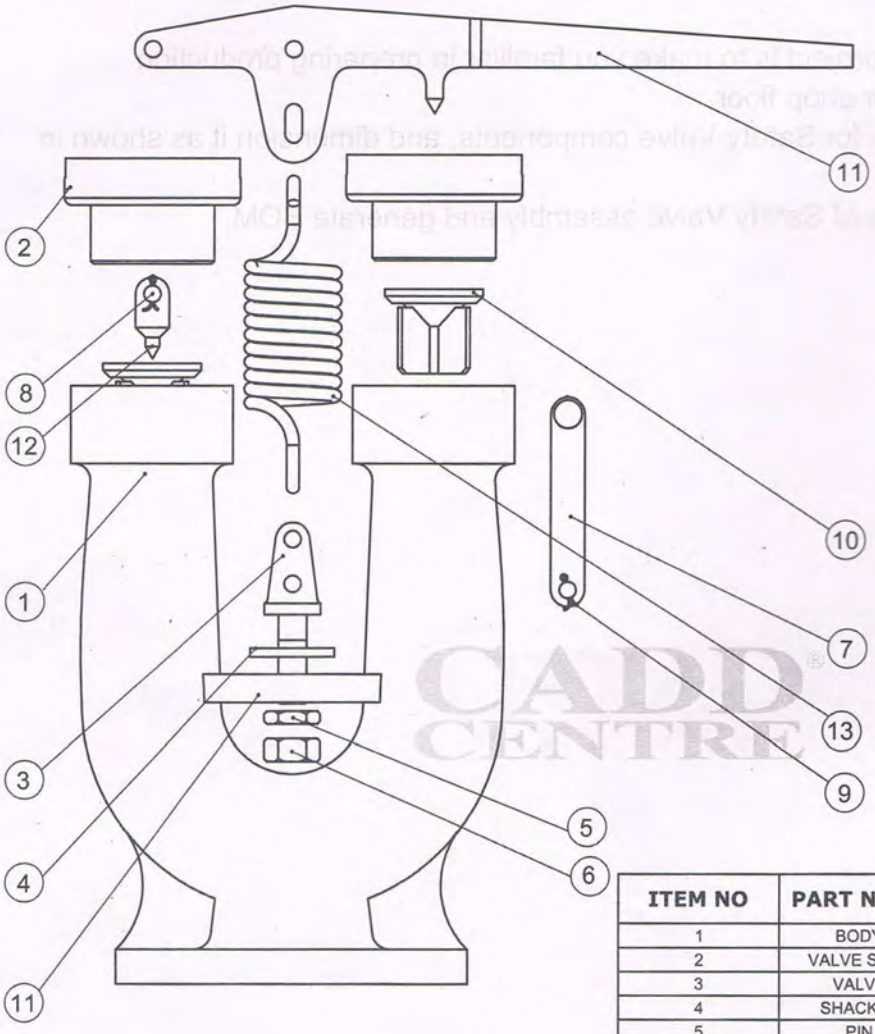
Directions: -

1. The objective of this project is to make you familiar in preparing production document required for shop floor.
2. Create detailed views for Safety Valve components, and dimension it as shown in Project0A0-000.
3. Create exploded view of Safety Valve assembly and generate BOM.

CADD CENTRE

HATRONYKS

Project No: 0A0-000	File Name:
Duration: 100min	Actual Hours:



ITEM NO	PART NAME	DESCRIPTION	QTY
1	BODY	CAST IRON	1
2	VALVE SEAT	GUN METAL	2
3	VALVE	GUN METAL	2
4	SHACKLE	Fe 410W	1
5	PIN	Fe 410W	3
6	SPLIT PIN	Fe 410W	3
7	LEVER	Fe 410W	1
8	PIVOT	Fe 410W	1
9	LINK	Fe 410W	2
10	LOCK NUT M20	Fe 410W	1
11	NUT M20	Fe 410W	1
12	WASHER	Fe 410W	1
13	SPRING	SPRING STEEL	1

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

	SHEET 05/05	Details of Exploded view 0f safety valve

CADD CENTRE
HATRONYKS

Project No: 0A0-010	File Name:
Duration: 65min	Actual Hours:

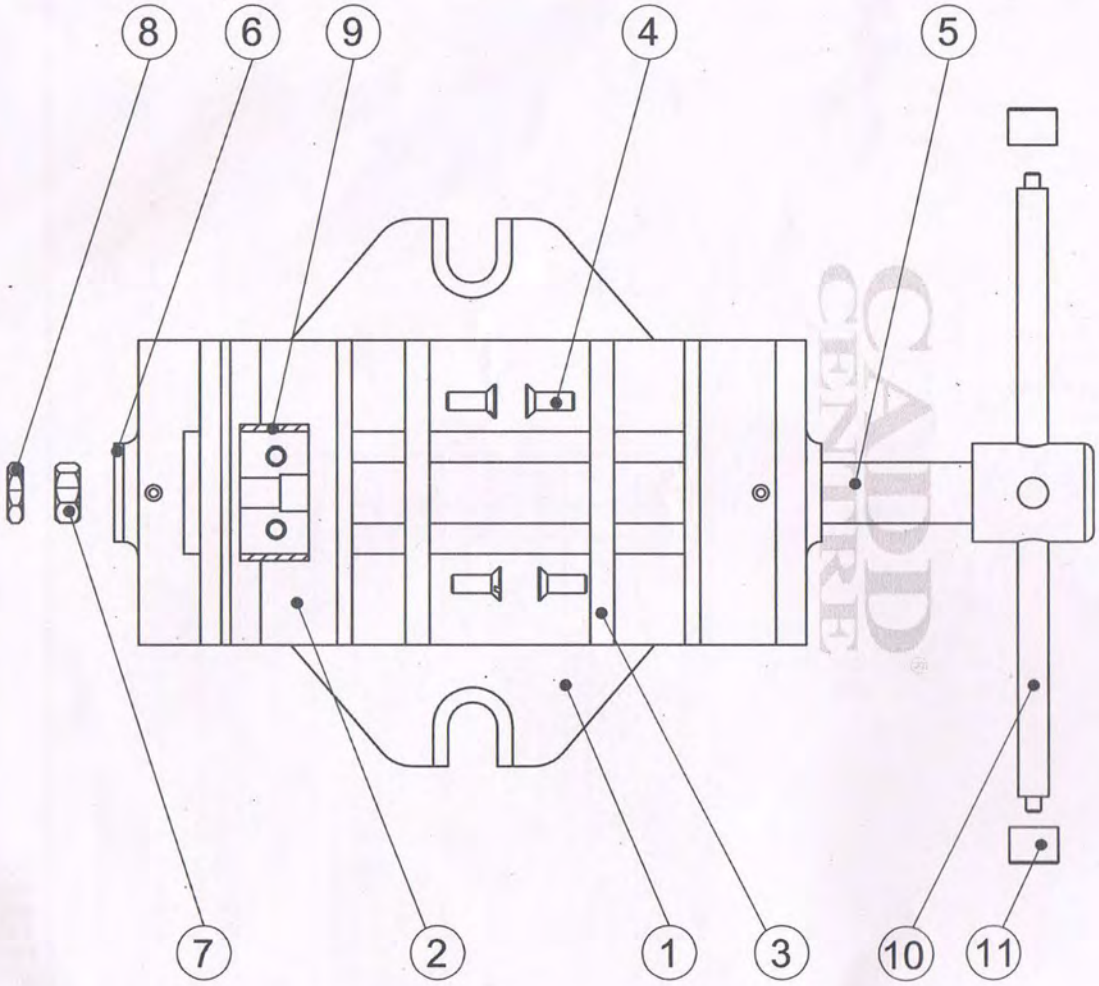
Directions: -

1. The objective of this project is to make you familiar in preparing production document required for shop floor.
2. Create detailed views for Machine Vice components, and dimension it as shown in Project0A0-010
3. Create exploded view of Machine Vice and generate BOM.

CADD CENTRE

HATRONYKS

Project No: 0A0-010	File Name:
Duration: 65min	Actual Hours:



SNO	Part Name	Description	Nooff
1	Body of vice	Cast Iron	1
2	Movable jaw	Cast Iron	1
3	Jaw grip	Cast Steel	2
4	Screw M6	Fe 410 W	6
5	Screw Rod	Fe 410 W	1
6	Washer	Fe 410 W	1
7	Nut	Fe 410 W	1
8	Lock Nut	Fe 410 W	1
9	Clamping plate	Fe 410 W	1
10	Handle	Fe 410 W	1
11	Handle cap	Fe 410 W	1

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

	SHEET 05/05	Details of Exploded view of Machine Vice

HATRONYKS

CADD CENTRE

Project No: 0A0-020	File Name:
Duration: 100min	Actual Hours:

Directions: -

1. The objective of this project is to make you familiar in preparing production document required for shop floor.
2. Create detailed views for Tool head components, and dimension it as shown in Project0A0-020.
3. Create exploded view of Safety Valve assembly and generate BOM.

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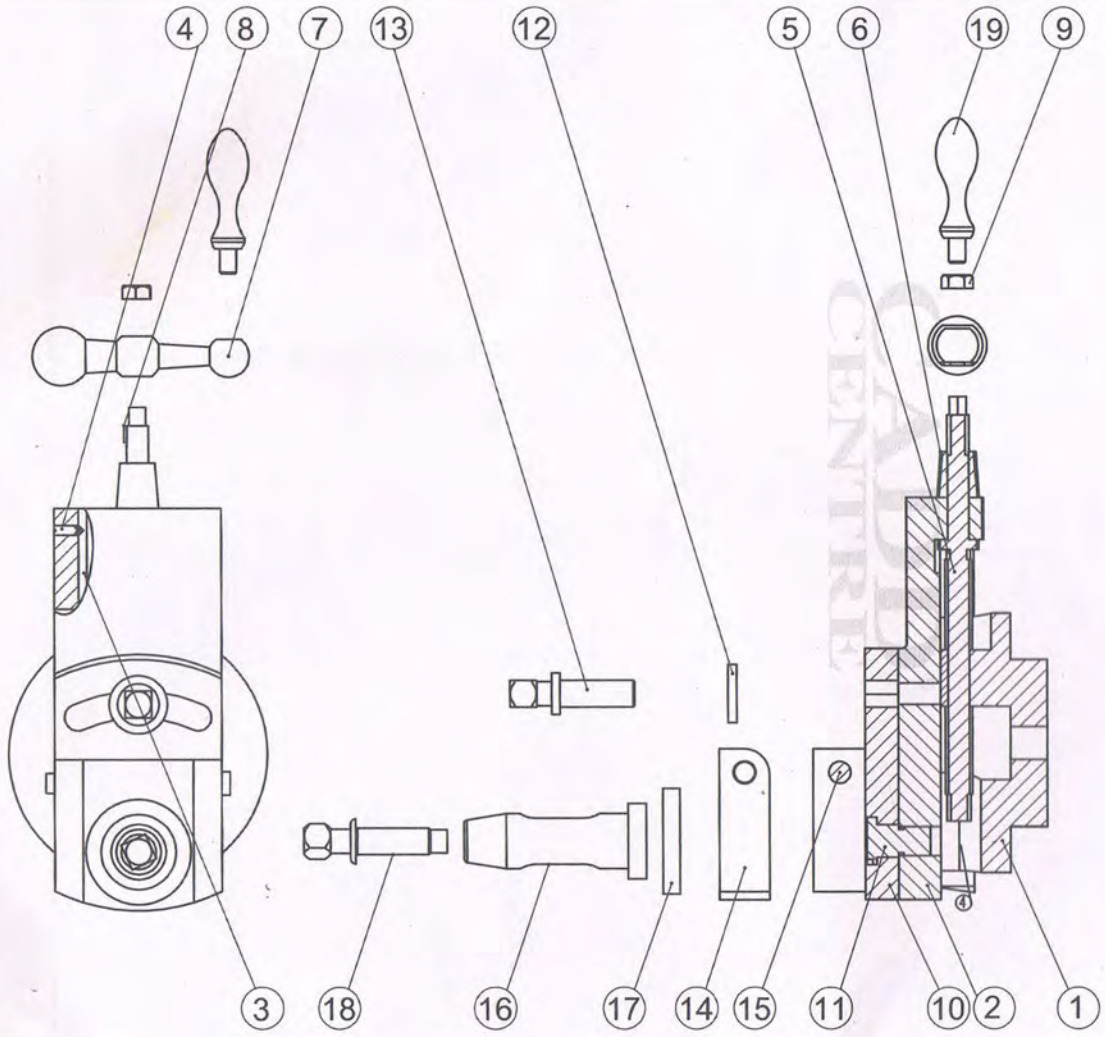
Project No: 0A0-020	File Name:
Duration: 100min	Actual Hours:



ITEM NO	PART NAME	DESCRIPTION	QTY
1	BACK PLATE	CAST STEEL	1
2	VERTICAL SLIDE	CAST STEEL	1
3	ADJUSTABLE STRIP	Fe 410W	1
4	GRUB SCREW	Fe 410W	5
5	SCREW ROD	Fe 410W	1
6	SPACER BUSH	Fe 410W	1
7	HANDLE BAR	Fe 410W	1
8	ROUND KEY	Fe 410W	1
9	NUT M10	Fe 410W	1
10	SWIVEL PLATE	CAST STEEL	1
11	SCREW SWIVEL PIN	Fe 410W	1
12	WASHER	Fe 410W	1
13	CLAMPING SCREW	Fe 410W	1
14	DRAG PLATE	Fe 410W	1
15	PIVOT PIN	Fe 410W	1
16	TOOL HOLDER	Fe 410W	1
17	WASHER	Fe 410W	1
18	TOOL FIXING SCEW	STEEL	1
19	HANDLE	Fe 410W	1

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

	SHEET 07/07	Details of Exploded view of Tool Head of Shaping Machine

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Project No: 0A0-030	File Name:
Duration: 60min	Actual Hours:

Directions: -

1. The objective of this project is to make you familiar in preparing production document required for shop floor.
2. Create detailed views for sheetmetal body, and dimension it as shown in Project0A0-030.
3. Create exploded view of Safety Valve assembly and generate BOM.

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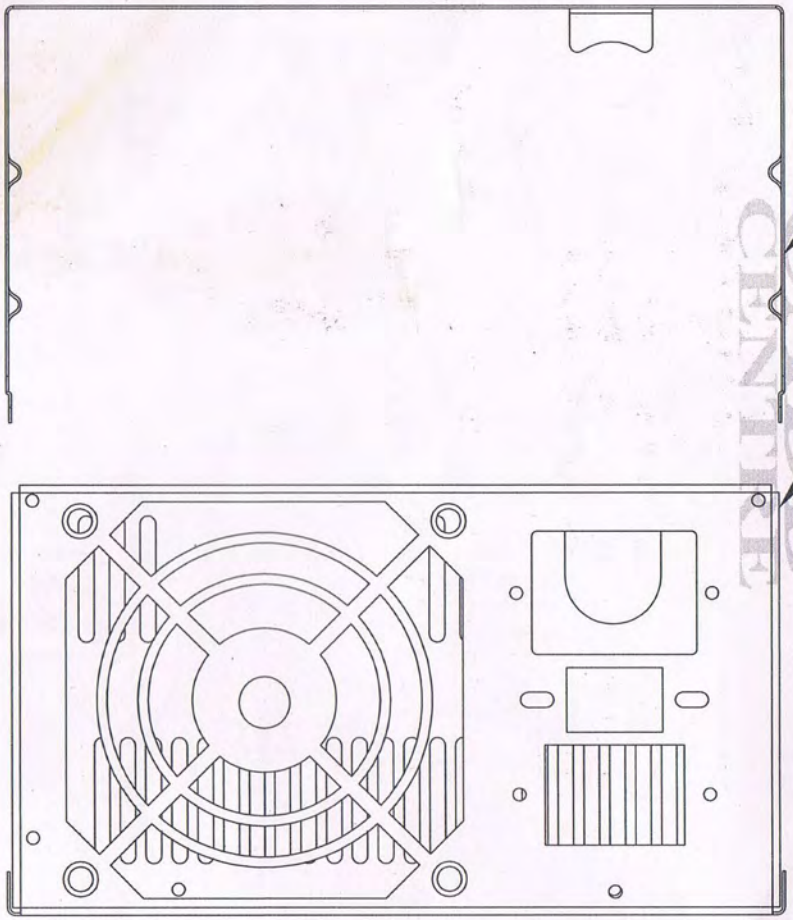
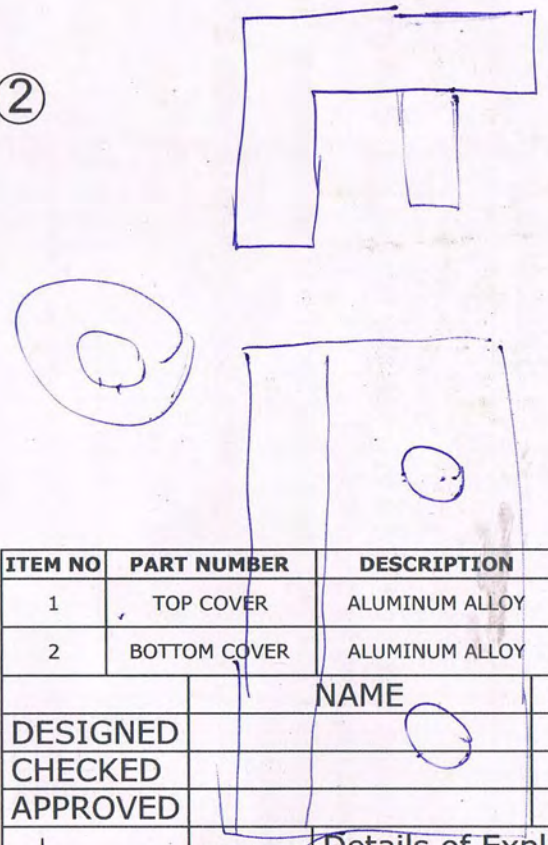
Project No: 0A0-030	File Name:
Duration: 60min	Actual Hours:





ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	TOP COVER	ALUMINUM ALLOY	1
2	BOTTOM COVER	ALUMINUM ALLOY	1

	NAME	DATE
DESIGNED		
CHECKED		
APPROVED		

	SHEET 05/05	Details of Exploded view of SMPS sheetmetal cover

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Customer Notification

Dear valued customer,

We request you to keep yourself updated on the deliverables of CADD Centre and the following important steps to be taken during all processes, right from the counselling and till the completion of course:

1 During the counselling

- Confirm that the centre has a valid "Authorisation Certificate" issued by CADD Centre Corporate Office
- Have the course objectives explained to you in detail
- Obtain the course summary brochure for future reference
- Have a demonstration of the key features of the software tools
- Look for the "Certificate of Expertise", given to the centre, to assure its technical expertise
- Check for the course chart & choose a program

2 During enrollment

- Pay as per the prescribed course fee; collect the receipt for fee with applicable tax paid
- Register yourself at www.caddcentre.ws with your email ID before you attend the class; it is a must for your certification
- Check your email account and collect your unique student ID number
- Maintain the email communication received for your future reference
- Provide your unique Student ID number to the centre and keep it for your future communication

3 During the delivery of courses

- Get the CADD Centre ID card to avail reference schemes
- Collect CADD Centre's printed reference guide for all modules
- Collect CADD Centre's project workbook for practical sessions
- Know day-wise course break up containing complete syllabus
- Have theory and practical training from a qualified instructor
- Tear-off the feedback form attached with each courseware; fill it with signature and submit it at the end of every module; this is a must for your certificate process

4 On completion of the course

- Obtain CADD Centre Course completion certificate with hologram
- Collect the specially designed certificate folder to safe keep and display the certificate
- Verify the certificate number in www.caddcentre.ws site to ensure employer verification after 30 days from the receipt of the certificate
- Upload your resume at www.skillease.co.in for free placement assistance

For further clarifications / assistance / concerns, please write to customer care at **feedback@caddcentre.ws** (or) Toll free number **1800 - 425 - 0405** (Between 9 am to 6 pm).

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