

Engineering Drawing
Project
(UTA015)
First-Semester
First Year BE, ME

Prepared for
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Thapar Institute of Engineering and
Technology

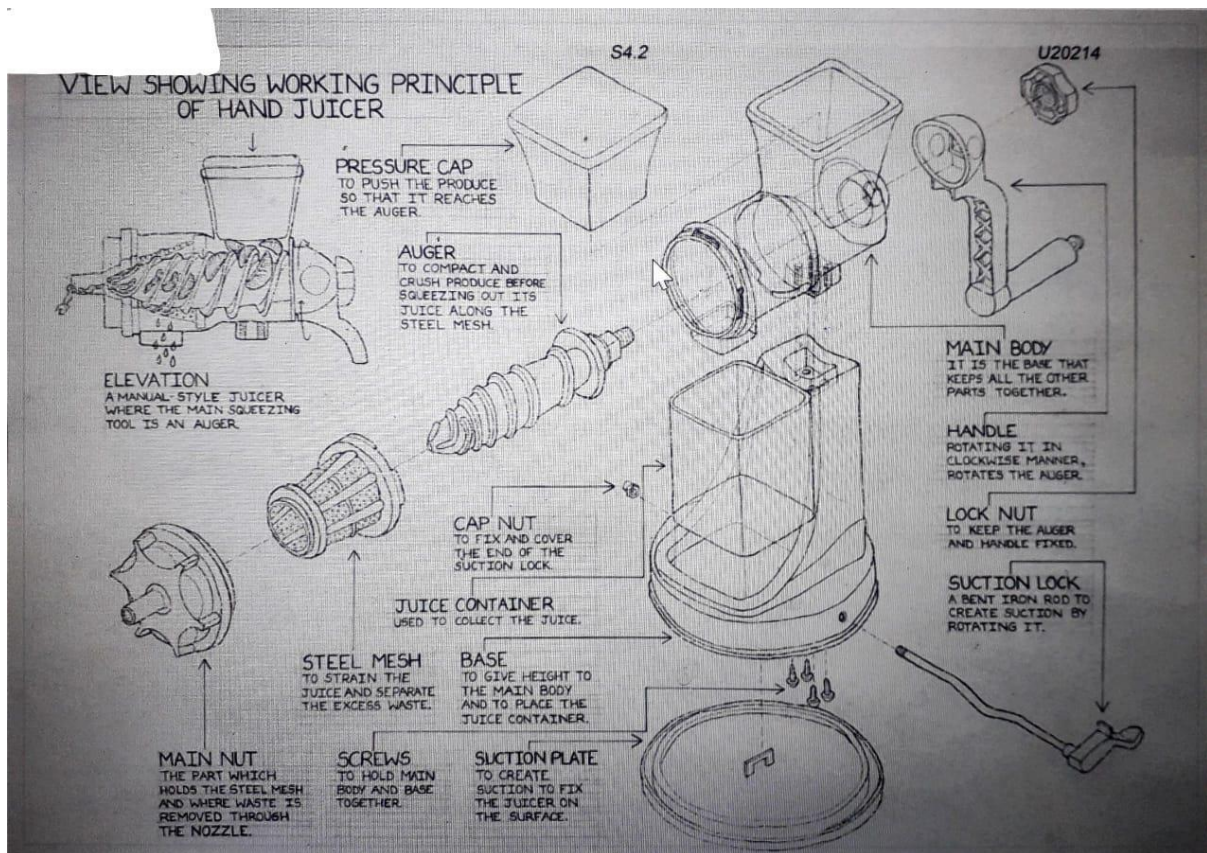
December 27, 2022



THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

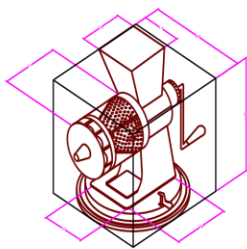
A Hand Juicer , a common household item:

The schematic below shows the working principle of Hand Juicer:

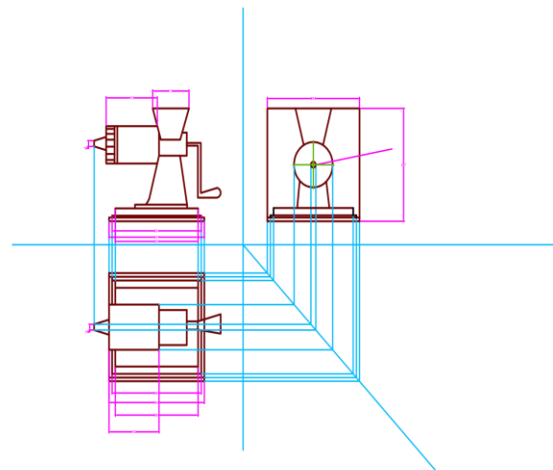


For Hand juicer the isometric and orthographic views are shown below:

ISOMETRIC VIEW



ORTHOGRAPHIC VIEW



INDEX:

Purple: Dimensions

Black: Construction Box

Dark Purple: Object

Light Blue: Construction Lines

Upper right region shows Left Hand Side View

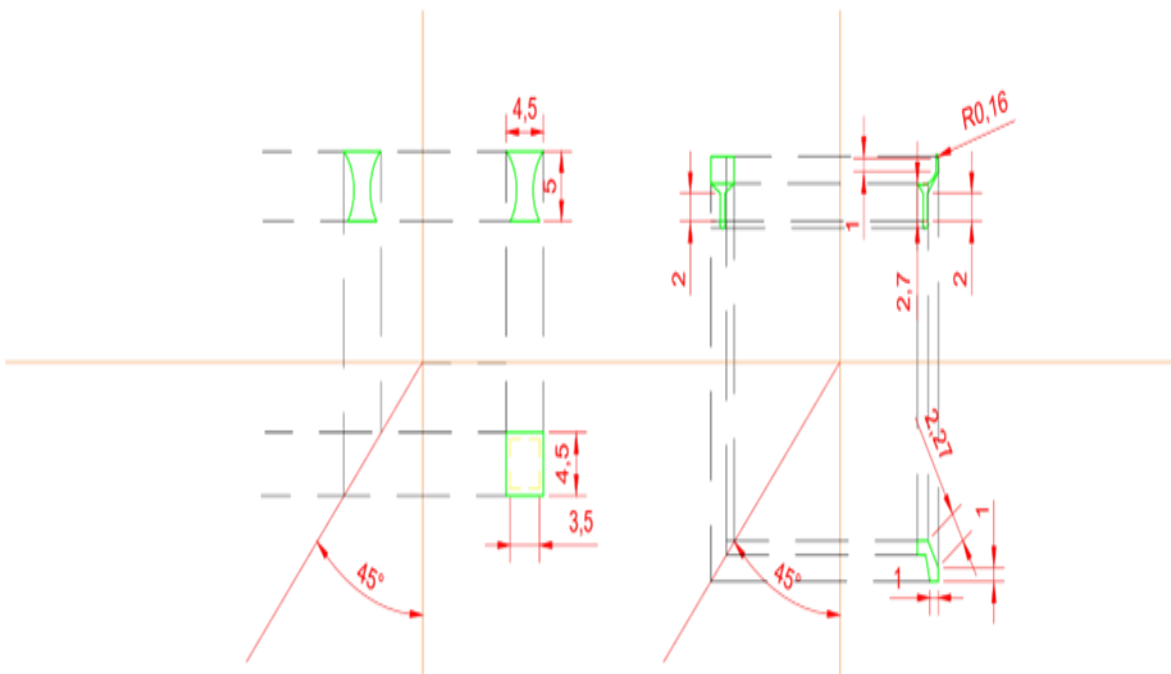
Upper left region shows Front View

Lower left region shows Top View

And Axis



For Hand juicer the isometric and orthographic views of some parts shown below:



Components: Pressure Cap and Suction Lock

INDEX:

Red: Dimensions

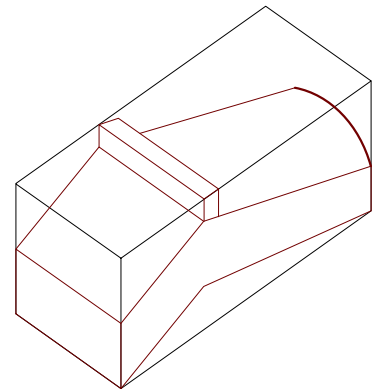
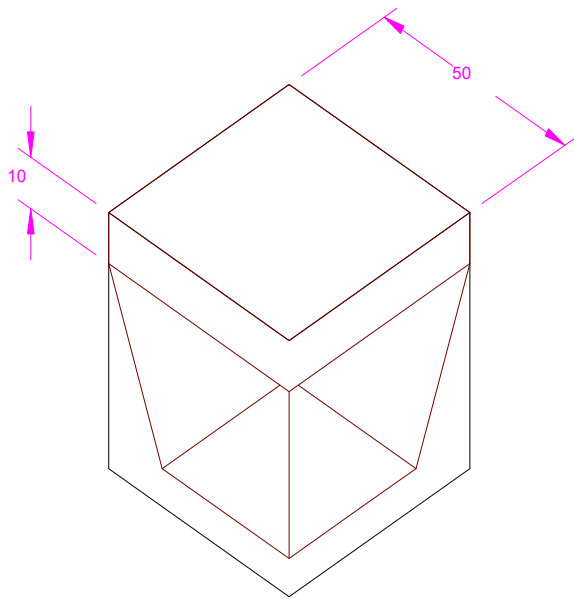
Black: Construction Lines

Upper right region shows Front View

Upper left region shows RHSV

Green: Object
Orange: Axis

Lower right region shows Top View

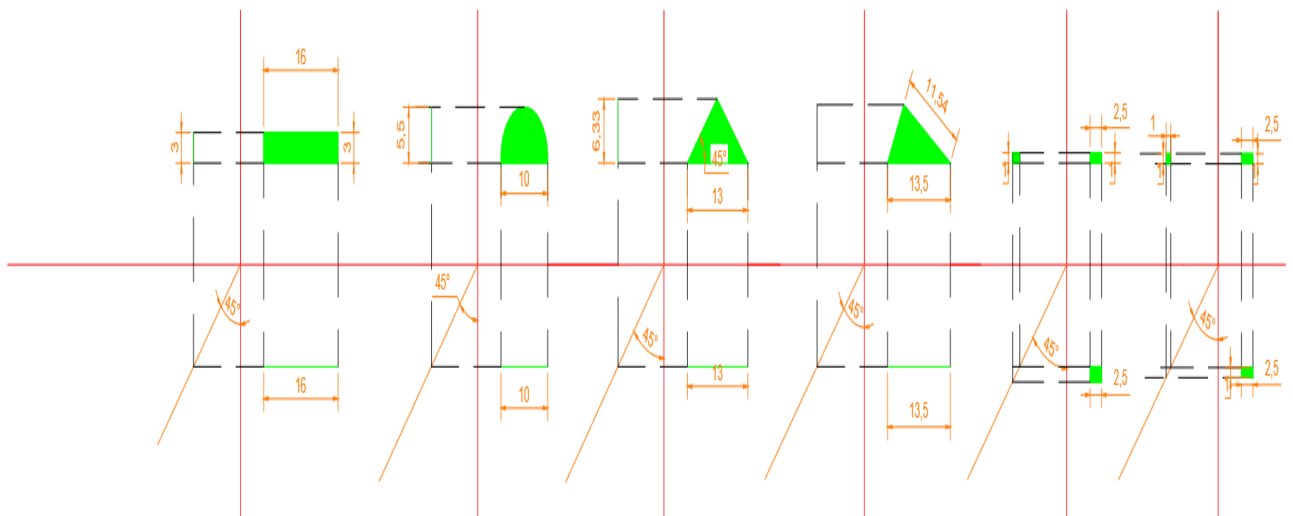


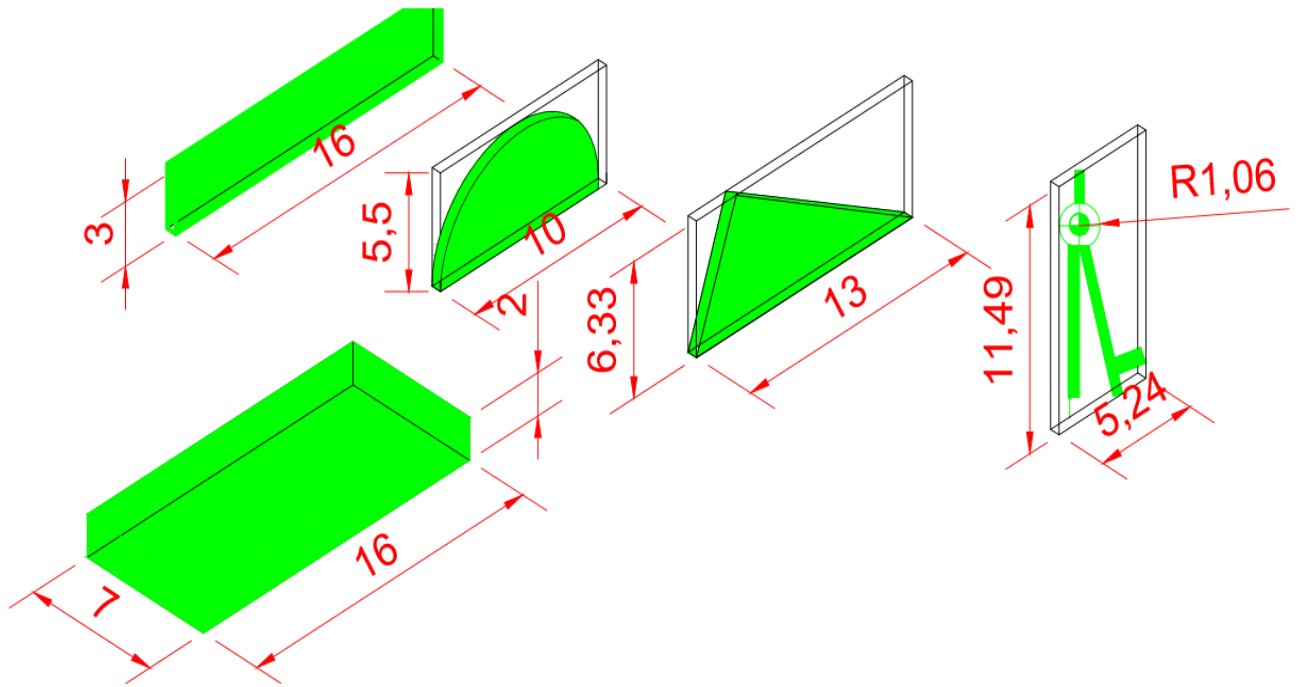
Bill of Materials:

Product No.	Product Name	No. of parts	Material
1	Pressure Cap	1	Plastic
2	Main Nut	1	Plastic
3	Steel Mesh	1	Steel
4	Auger	1	Plastic
5	Cap Nut	1	Steel
6	Main Body	1	Plastic
7	Screw	1	Steel
8	Suction Plate	1	Rubber
9	Base	1	Plastic
10	Suction Lock	1	Plastic
11	Lock Nut	1	Plastic
12	Juice Container	1	Plastic
13	Elevation	1	Plastic
14	Handle	1	Plastic and Steel

Geometry Box, a common stationary item:

The schematic below shows the pictures of geometry box along with isometric and orthographic views.





INDEX:

Red: Dimensions

Green: Object

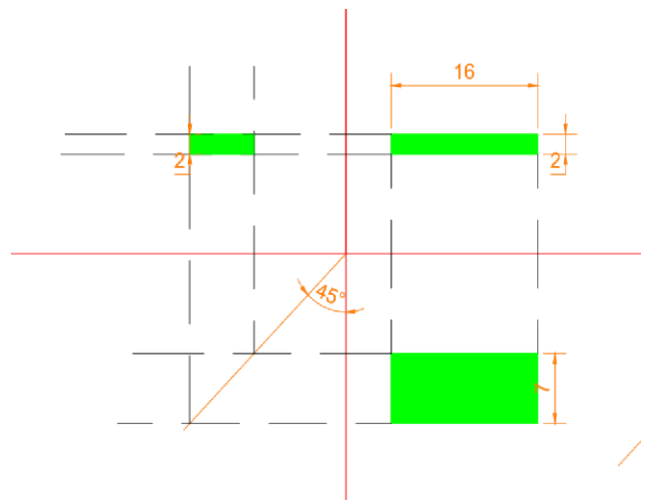
Orange: Axis

Black: Construction Lines

Orthographic view of Geometric Box

Upper Right-FV ; Upper Left-RHSV

Lower Right-TV



Bill of
Materials:

Product No.	Product Name	No. of parts	Material
1	Compass	1	Plastic and Steel
2	Divider	1	Plastic and Steel
3	Protactor	1	Plastic and Steel
4	Set Square 45	1	Plastic
5	Set Square 60	1	Plastic
6	Roller	1	Plastic
7	Pencil	1	Wood
8	Eraser	1	Rubber
9	Sharpener	1	Plastic