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**Drawing Report**

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**Introduction:**

In this lab report, we’re looking at a 2D CAD drawing made using AutoCAD software. The goal is to understand how to create accurate digital drawings and see how well AutoCAD works for this.

In the CAD drawing we’re studying different commands used in AutoCad which can make different geometric shapes accurately and many other commands like hatch, fillets etc. AutoCAD is a popular tool in engineering and design for making precise drawings.

Throughout this report, we’ll talk about how we made the CAD drawing, describe what’s in it, and discuss how good it is for its purpose. This will help us get better at CAD drawing, learn some useful tips, and see why accuracy is important in technical drawings for engineering and design.

Let’s start exploring our 2D AutoCAD drawing and see what we can learn from it.

**Description :**

In the 2D AutoCAD drawing I created top, front and side views of some mechanical parts. It includes detailed measurements and annotations to provide a clear understanding of the design.

Following is brief description of drawings:

1. Drawing 1 is a bit simple drawing. It can be simply made using lines, rectangles and circle commands.
2. Drawing 2 is bit more complex than 1st. In drawing 2 I used some more commands from Autocad like fillets and center marks to show circles.
3. Drawing 3 is approximately similar to drawing 2. I used rectangle, line, circle, fillets and many other commands in tjis drawing.

Dimensioning is also an important part of engineering drawing. I have given proper dimensions to all drawings using annotate tab from Autocad.

I used AutoCAD tools like lines, shapes, dimensions, and text to create this drawing accurately. Each component is labeled and dimensioned to show its size and position relative to other parts.

The drawing also includes annotations to explain important details or instructions related to the design. These annotations are essential for anyone using the drawing to understand its purpose and specifications.

Overall, this 2D AutoCAD drawing serves as a visual representation of mechanical parts that can be used in manufacturing industry. It is a precise and detailed illustration created using AutoCAD’s features to ensure accuracy and clarity in conveying the design information.

**Conclusion:**

To sum up, our experience with the 2D AutoCAD drawing taught us a lot about making digital designs and engineering plans. Here are the main things we learned:

* AutoCAD helped us create a drawing that was very accurate. We made sure all the measurements and labels were clear and correct, which made our design look professional.
* We used labels, measurements, and notes in our drawing so that anyone looking at it could understand what it meant. This made it easy to see how different parts fit together.
* Our drawing can be used for [mention what it's used for, like planning buildings or making things]. It gives important information that people can use to make decisions and do their work well.
* This project helped us get better at using AutoCAD and taught us how important it is to pay attention to detail in drawings. We now know more about how to use AutoCAD for designing and explaining things.

Overall, our 2D AutoCAD drawing shows how important it is to be accurate, clear, and useful in technical drawings for engineering and design work.

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