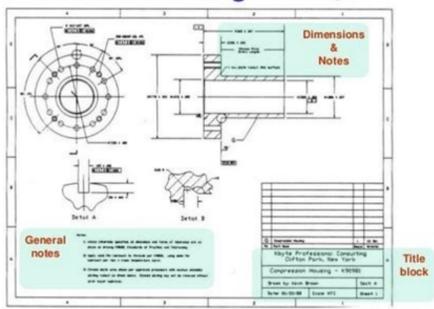
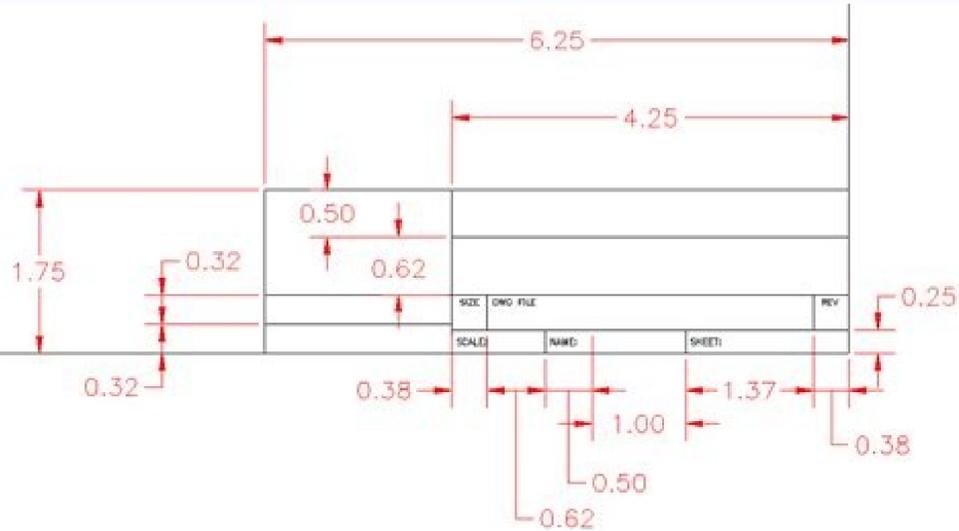
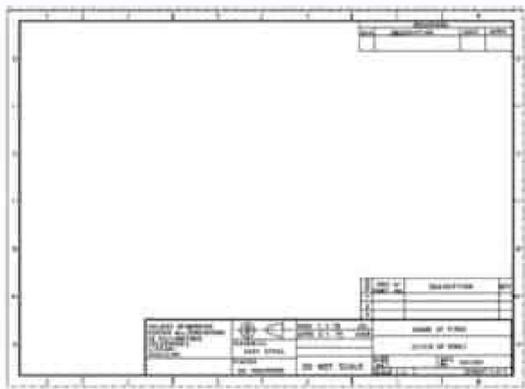
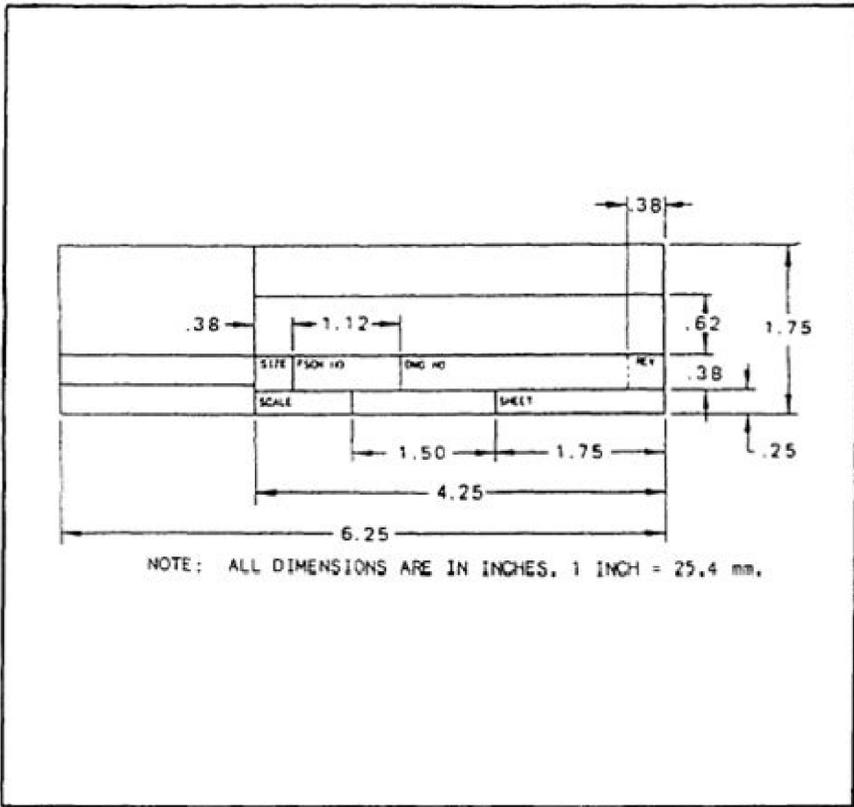
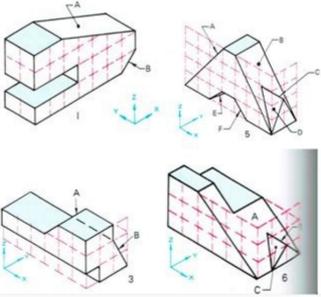


I'm not robot!

Text on drawings : Example



Provide a mechanical drawings with correct dimensions, page layout, title block. You will need a straightedge, scale, pencil etc to provide the objects correctly drawn with dimensions based on the view in the figure. Use a proper title block, and page layout for each. Scrap paper not ok. Graph paper ok, but must be laid out correctly



Title block in engineering drawing with dimensions. Drawing title block dimensions. Engineering drawing title block examples.

Engineering graphics is an effective way of communicating technical ideas and it is an essential tool in engineering design where most of the design process is graphically based. Engineering graphics is used in the design process for visualization, communication, and documentation. Graphics is a visual communications language that include images, text, and numeric information. Graphics communications using engineering drawings and models is a clear and precise language with definite rules that must be mastered in order to be successful in engineering design. Graphics communications are used in every phase of engineering design starting from concept illustration all the way to the manufacturing phase. An engineering (or technical) drawing is a graphical representation of a part, assembly, system, or structure and it can be produced using freehand, mechanical tools, or computer methods. Working drawings are the set of technical drawings used during the manufacturing phase of a product. They contain all the information needed to manufacture and assemble a product. Codes and Standards Codes and standards are made to organize and unify the engineering work. Imagine: what if there was no standard for bolts? A code is a set of specifications for parts, materials, or processes intended to achieve uniformity, efficiency and specific quality. Examples of the organizations that establish standards and design codes: ISO, AISI, SAE, ASTM, ASME, ANSI, DIN. There are many different standards related to technical drawings. The ISO standards for technical drawings are found in a two volumes handbook: ISO Standards Handbook: Technical drawings, Volume 1: Technical drawings in general ISO Standards Handbook: Volume 2: Mechanical engineering drawings; Construction drawings; Drawing equipment. Drawing Sheet Layout Standard around the outside of drawing area. The margins of the drawing frames are standardized for each size of paper. drawing sheet size Title Block. The title block is normally placed in the bottom right of the drawing frame, and it should contain the following information: the name of the company or organization, the title of the drawing, the drawing number, which is generally a unique filing identifier, the scale, the drawing size, the angle of projection used, either first or third, generally shown symbolically, the signature or initials of the draftsman, checker, approving officer, and issuing officer, with the respective dates, the material of the part, the revision number, the sheet number for multi-sheet drawings, other information as required (tolerances, surface finish, etc.) In addition to the information above, for drawings produced using CAD software, it is highly recommended to have the following information in the title block: the name of the CAD software used and its version, the name of the drawing file, the name of the source part or assembly file, the units of the dimensions (if the drawing is mistakenly printed on a different paper size, the scale becomes meaningless), Revision Table, A revision table is normally located in the upper right of the drawing frame. All modifications to the drawing should be documented there. Material or Parts List (Bill of Materials). If the drawing contains a number of parts, or if it is an assembly drawing, a tabulated parts list is added to the drawing. The bill of materials is usually placed at the bottom right of the drawing frame, just above the title block. The bill of materials should give the following information: the part number, the part name, the quantity required, material specifications, the drawing number of each individual part, other applicable information. When the parts list is very large a separate drawing sheet may be used for the parts list alone. Zoning. A drawing may be divided up into a grid using letters and numbers. When zoning is used it is located inside the drawing frame. Zoning is usually used for large size drawing sheets where it allows easy references to various parts of the drawing by referencing a coordinate such as B4. Notes. Information other than pictorial views and dimensions necessary for completing a drawing is classified as "notes". Notes are usually placed in the lower left corner of the drawing sheet and they are numbered consecutively downward. Some examples of the notes used in working drawings are as follows: Dimension Notes ALL DIMENSIONS APPLY AFTER SURFACE TREATMENT; Heat Treating Notes HEAT TREAT IN ACCORDANCE WITH standard-XXX TO XXX-hardness; Joining Method Notes (welding, brazing, etc.) FUSION WELD IN ACCORDANCE WITH standard-XXX; Plating and Coating Notes CADMIUM PLATE IN ACCORDANCE WITH standard-XXX; Surface Preparation Notes SURFACE TO BE CLEANED AND POLISHED FOR VACUUM USE; Testing and Inspection Notes RADIOGRAPHIC INSPECTION OF ALL WELDS IN ACCORDANCE WITH standard-XXX; Threaded Inserts - Cleaning and Installation Notes TIGHTENING TORQUE OF THREADED FASTENERS SHOULD BE AS LISTED IN TORQUE TABLE; Miscellaneous Notes PLACE IN BAG AFTER FINAL ELECTROPOLISHING. More Resources /articles/Engineering Drawing- Articles , Notes , Interview Q & A Latest seminar topic index - Report , PPT Download CAD Software | CAD Tutorials Mechanical Subjective Basic Concept Notes. Articles link to Privacy app link to Pressure Vessels - Parts, Design, Application, Types, Material, Diagram Thinkstock/Comstock/Getty Images The internal combustion engine takes many forms, and many efforts have been made to optimize the performance of every component from oil-pan to air-cleaner. The engine block itself is no exception, and of all the different designs experimented with over the years, the following are the most popular and prolific. This is probably the most popular engine block on the market and comes in several iterations. From massive Cadillac V16s, to classic V8s to the tiny V4s used on motorcycles; the V engine has a long history and time-tested record of reliability. The primary advantage of a V engine is its compact nature. Because it uses a pair of cylinder banks running parallel to each other, a V-16 engine is almost the same length as an inline-eight and only a bit wider. The only downside of a V engine is smoothness, which can be quite bad due to the fact that the pistons are set at odd angles to the engine center-line. This effect can be offset by adding more cylinders, which is why luxury cars often have 10 cylinders or more. Inline-block engines use a series of cylinders that run in a single line from the back of the engine to the front. Because these engines typically run smoothly, they are often used in applications that require high-rpm power, which makes the configuration ideally suited to the small-displacement engines used in most passenger cars. It is for this reason that almost all four-cylinder engines use an inline-block configuration. Additionally, an inline configuration by design lends itself to the usage of an overhead cam (OHC) cylinder head, which also helps to increase high-rpm horsepower. This inline-four/OHC cylinder head combination is used to good effect on practically all four-cylinder cars currently in production. Boxer engines are used primarily by Porsche and Subaru and are some of the most highly developed engines around. The easiest way to understand the boxer engine is to think of it as a V engine that has been pressed flat, so that the cylinder heads are directly opposite each other. The boxer engine has a number of

drawings. Because the pistons on one bank effectively serve as counterweights for the other side, this makes for a shorter, lighter crankshaft and a higher revving and more powerful engine. Boxer engines are also relatively light and are low to the ground. This can lower a car's center-of-gravity by several inches, making for a better-handling chassis. Engineering drawing software, like Auto-CAD or Solid Works, enables engineers and drafters to spend more time creating and innovating mechanical or electrical drawings. Most engineering drawing software comes with a library of parts or components ready to drag and drop onto the screen. The importance of engineering drawing software is the time it can save in creating drafts for engineers, scientists, technicians and drafters. Of equal importance is the coherency of the drafts that it can produce. With applications like Solid Works, drafters can create three-dimensional drawings that are more interactive than the older drawing programs. Aside from drawing schematics and blow-up diagrams, engineering drawing software may include flow charts and process diagrams. These types of drawings are done using Microsoft Visio. Some companies have developed entire assembly procedures and parts descriptions for manufacturing using only Visio, and a little bit of programming. Engineering artwork and drafts are often stored and accessed by computer data bases, such as Oracle.HistoryThe earliest engineering drawing software is the world-renowned CAD (computer aided drawing) application. CAD was originally a two-dimensional drawing program with very limited drawing tools, consisting of circles and simple line drawing tools. Today, CAD includes extensions like Wire Frame to allow for the creation of three-dimensional drawings. M TypesThere are a number of engineering drawing software applications. Mechanical computer-aided design software (MCAD) is used primarily by mechanical engineers. Solid Works is one of the most popular mechanical drawing software programs. File formatting is saved in Microsoft Structured Storage. This format includes multiple files nested in one another, including previews, images and metadata files. Those who do the drawing are usually drafters or technical illustrators. Engineers spend more time analyzing drawings and crunching numbers.Graphing/ visualization applications are used to render scientific data into a coherent drawing. Engineers convert data into visual graphs that work with relational databases and reference documents. Graphs and drawings can then be stored in an online analytical processing model (OLAP). OLAP is accessed in multidimensional views by a shared network of scientists, engineers, drafters, and technicians.Teplot helps engineers draw out dynamic data maps. Teplot has been used in creating 3D graphs for invisible structures such as magnetic fields and bio-engineering models. Auto CAD is still the most widely used engineering drawing software. Utilizing C++ code allows engineers and drafters to customize CAD objects, resulting in more accurate and flexible drawings. For Mac and Linux, QCAD is the popular engineering drawing software.SignificanceThe visual aspect of drawing software is a key component in assembly instructions for engineering/manufacturing companies. None of the products we use today could be manufactured accurately without engineering drawing software. Drawings are fixed point for accuracy and scaled. This means that size and dimension is scaled down (or up) for printing to paper or an electronic medium. A scaled technical drawing is a representation of something with physical dimensions. Without scaling, all drawings would have to match the exact size of the object being represented.ConsiderationsThree-dimensional drawing programs were developed to speed up design processes in engineering. One problem that comes from engineering drawing software is the subject of simulations. Simulation-type drawings are useful for training personnel in hazardous environments, such as manufacturing facilities where dangerous chemicals are handled. Simulation drawings are time-consuming to create, though, and may actually inhibit productivity in the long run. Drawings are more likely used in place of simulations.UseA common use for engineering drawing software is in creating documentation for an engineering group. For example, a mechanical engineer puts together three-dimensional components for a new product prototype. An electrical engineer would then draw out a two-dimensional plan for power distribution in the new product.Technical illustration software or CAD is used to draw the two-dimensional plan. In the case of an electronic file, the engineer or drafter will insert hyperlinks in the three-dimensional plan, which link to a two-dimensional electrical plan for the new product. Modern engineering drawing software, including Visio, has intelligent objects that have been preprogrammed to align on the computer screen and connect lines where it is reasonable to do so. The illustrator or drafter moves objects around more than actually drawing.Future ApplicationsOne area of technology that is opening the way to the future of engineering drawing is virtual reality. Virtual drawings enable engineers to visit inside space stations of the future, project problems with their designs and improve an existing design without ever leaving the office.In the real world, Ford Motors has used virtual reality to step inside a drawing of an automobile. Virtual drawings can aid engineers in finding defects before a product has gone to the market. In fact, engineers can utilize virtual drawings to determine the best assembly procedures before the first prototype reaches the assembly line. The use of virtual drawings can save a company money and increase the speed of the design process significantly.

Drawing Title Blocks ... 7200 Technical Drawings- Title Blocks identifies the title block requirements to be used on engineering drawings.... The drawing sheet size should be in accordance with "BS EN ISO 5457 TD- Sizes and layout of drawing sheets" ... The main scale and the linear dimension units if other than "mm". 22/07/2022 · The elements inside these title blocks; Name: In this section, you can give the company or business name where this technical drawing is belong. Drawing Title: Drawing title must be definitive with the shortest phrasing possible. So, we do not recommend using "or" or "for" in the drawing title. Scale Block: You write the scale of the ... A title block is divided into several areas. On of the areas normally found within the title block are the drawing title, the drawing number, and lists the location, the site, or the vendor. The drawing title and the drawing number are used for identification and filing purposes. Usually the number is unique to the drawing and is comprised of a ... 22/02/1999 - The vertical title block format must be used for all 22-in. by 34-in. (D-size) drawings and is optional for 28-in. by 40-in. (F-size) drawings. In a multiple-sheet drawing, either the basic title block or a "continuation sheet title block" format may be used for second and subsequent sheets provided all sheets are of the same size. ARCH D (24"x36") title block (DWG, 137 KB) DWG. Installing and Using the Maryland NRCs CADD Title Blocks. Installing the Templates: Determine where the templates are stored on your computer. Do the following: Start AutoCAD. On the Tools menu, click Options. In the Options dialog box, click the Files tab. Title Block. The title block is normally placed in the bottom right of the drawing frame, and it should contain the following information: the name of the company or organization, the title of the drawing, the drawing number, which is generally a unique filing identifier, the scale, the drawing size, the angle of projection used, either first ... All drawings require a boarder. The standard line thickness of the boarder is 0.6 mm. The top, right and bottom margin should be 10 mm and the left margin should be 20 mm. This applies for all sheet sizes (A0, A1, A2, A3, A4). Notice that the left marigns in larger to allow space for binding a drawing set.. Boarder linewidth: 0.60 mm.

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