



Design drawings by Dieter Rams made for Braun Electronics

DESIGN DRAWING

When can the method be used?

In the early phase of the design process,

or configurations, shading and casting

perspective, construction of 3D shapes,

shading and constructing cast shadows. Colour is not always used and very often this kind of drawing will suffice for idea sketching

When several ideas are combined to develop

general idea about the materials being used,

how it will be manufactured. The colour and

preliminary concepts, the designer has a

the shape of the product, its function and

expression of the materials - for example

matt or reflective plastic - become more

important and the drawings become more

Side-view sketching can be a quicker and

easier way of making variations in shape,

Sketching can play a role in different phases

Explorative drawing enables you to analyse

visually and to generate and evaluate ideas

throughout the entire product design cycle,

• Sketching can help you in analysing and

exploring the perimeters of the problem

• You can use drawings as a starting point

for new ideas by means of association.

shapes and their meaning, function and

several groups of people who have different levels of understanding of professional

• Sketching can help you to explore

Along with verbal explanations, you use drawings to interact and communicate with

particularly in the synthesis phase.

shadows. These kinds of drawings incorporate the basic skills and rules of

or structural concepts.

elaborate.

colour and details.

How to use the method?

of the design process.

definition.

aesthetics.

jargon.

drawings tend to be simple: basic shapes

presentation.

Limitations of the method

- You need to be a trained and experienced design drawer to be able to communicate your designs effectively.
- In some cases three-dimensional models will communicate your design more effectively than any drawing and make it easier to explain.





REFERENCES & FURTHER READING: Eissen, J.J. and Steur, R.*, 2007. Sketching: Drawing Techniques for Product Designers. Amsterdam: BIS. / Eissen, J.J. and Steur, R.*, 2011. Sketching: The Basics. Amsterdam: BIS. / Eissen, J.J., Van Kuijk, E. and De Wolf, P.*, 1984. Produkt Presentatietechnieken. Delft: DUP. / Van den Herik, Y. and Eissen J.J.*, 2005. Intuitive sketching: a new and explorative medium in generating ideas. Congress CAID&CD Applications of digital techniques in industrial design engineering. May, pp. 708-713.

Design Drawing by hand is a versatile and powerful tool for both design exploration and communication. It is an integral part of the decision-making process, used in the early stages of design, in brainstorm sessions, in the phase of researching and exploring concepts and in





Tips & Concerns

- Define the purpose of your drawing.
- Make sure that you define the purpose of your drawing before you start sketching. Choose a drawing technique based on your purpose, time, skills and tools define the kind of drawing
- The significance of a drawing depends on the context in which it is made. A drawing serves its purpose when it is effective. Therefore, a certain phase in the design process may require a certain type of drawing. Since time is an issue, a quick sketch is in many cases preferable to a more timeconsuming rendering.
- For generating and evaluating ideas, hand drawing is more versatile than CAD rendering and prototyping. A rendering can look very definite and unchangeable, which is not appropriate, for example, when you are still conferring with your client about design directions and possibilities.
- A brainstorm sketch can also easily be upgraded into a more presentable drawing, either on paper or digitally by using a tablet and software such as Adobe Photoshop or Corel Painter.
- Drawing by hand is also beneficial for the development of your visual perception, your imaginative capacities and perceptiveness of form in general.