

# Jigs And Fixtures Design Manual

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Jigs and fixtures are production tools used to accurately manufacture duplicate and interchangeable parts. Jigs and fixtures are specially designed so that large numbers of components can be machined or assembled identically, and to ensure interchangeability of components.

## **Introduction to JIGS AND FIXTURES**

jigs and fixtures are the devices which help in increasing the rate of identical parts and reducing the human efforts required for producing these parts, It has already been emphasized earlier that a centre lathe is a suitable machine tool for producing individual parts of different shapes and sizes, but for producing similar articles in great number its use will not be economical.

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Designing of jigs and fixtures depends upon so many factors.

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Such fixtures can be characterized as manual work fixtures and may be classified as shown in Table 1-2. This book deals essentially with the design of jigs and fixtures for use with metal-cutting machine tools. Applications outside of this area will be shown by a few characteristic examples.

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- The detailed design manual on Jigs and fixtures: A synopsis, gives textual details to include initial considerations, materials to be used, types of supporting parts, type of mechanism to be used, concept of standardization, and types of jigs and fixtures.

### **FIXTURE DESIGN CRITERIA: PHASE I**

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The book contains over 250 illustrations, including 2D/3D views of different jigs. Jigs and Fixtures is an indispensable reference for design and production engineers on the shop floor. The students of production engineering will also find this book very useful. Jigs and Fixtures By P H Joshi - PDF Free Download

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The principle of location or the 3-2-1 principle, CAD tools (like ProE), and FEA tools (like ANSYS) are used for the design of the jigs as well the fixtures. The jig is used for guiding the cutting tool (like a drill bit), and for doing so, jigs have components like a bush, which comes in contact with the cutting tool.

### **Jigs and Fixtures - Applications and Difference Between**

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Design", McGraw Hill, New York, 1976. Paquin and Crowley- Die Design Fundamentals, 1987, Industrial Press SME - Die Design

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### **Manufacturing Tooling Introduction**

The design of jigs and fixtures is dependent on numerous factors which are analyzed to achieve an optimum output. Jigs should be made of rigid light materials to facilitate easy handling, as it has to be rotated severally to enable holes to be drilled from different angles.

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