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*MILLING FIXTURE Modular Fixture*

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Overview Written for the experienced engineer as well as the student, this classic reference comprehensively presents the fundamental aspects of jig and fixture design in a readable manner.

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Pengenalan Definisi, Tujuan, dan

Kegunaan Fixture adalah sebuah alat

khusus yang digunakan untuk

menempatkan dan menahan dengan kuat

sebuah benda kerja dalam posisi yang

tepat selama operasi manufaktur. Pada

umumnya fixture disertai dengan alat

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untuk menahan dan menjepit benda kerja.

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Factors to be considered for design of Jigs and Fixtures

1. Component- Design to be studied carefully Ensure work is performed in a proper sequence Maximum

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operations should be performed on a machine in single setting 2. Capacity of the machine-Careful consideration to be performed on type and capacity of machine. 3. Production requirements-

~~Introduction to JIGS AND FIXTURES~~

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jigs and fixtures are the devices which



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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 center 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

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In general a jig or a fixture is a tool whose structure is designed to hold or align component and/or tool in the manufacturing process of fabrication or assembly, so as to produce work that is interchangeable within the tolerances set by manufacturing

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To get the greatest benefit from jigs and fixtures, a basic understanding of their construction is necessary. Jigs and fixtures

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are identified one of two ways: either by  
the machine with which they are identified  
or by their basic construction.

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fixtures may be defined as devices used in the manufacture of duplicate parts of machines and intended to make possible interchangeable work at a reduced cost, as compared with the cost of producing each machine detail individually.

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Erik Karl Henriksen and presents principles for combining fixture components and provides mechanical and economic analyses of designs

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new sections on assembly tools, handling tools, and catalog reading enable readers to develop important skills. Specific examples of various jigs and commercially available fixtures also appear to guide readers in developing their understanding of how design principles, as well as the latest design and manufacturing

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technologies, are being applied in the construction of jigs and fixtures today. As in past editions, heavy emphasis is placed on the economics of jigs and fixtures, including methods and formulas for use in estimating workholder costs. A solid background in industrial processes, as well as machine shop technology, is assumed.

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Uses basic terms to explain fixture design. Focuses on actual tooling procedures throughout. Provides a full understanding of the design and application of fixture tools and checking fixtures, welding fixtures and procedures, three-dimensional space in checking compound warped surfaces, measurement systems, and the

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