[PDF] Design Principles Of Metal Cutting Machine Tools By F Koenigsberger

Design Principles of Metal-Cutting Machine Tools discusses the fundamentals aspects of machine tool design. The book covers the design consideration of metal-cutting machine, such as static and dynamic stiffness, operational speeds, gearboxes, manual, and automatic control. The text first details the data calculation and the general requirements of the machine tool.

Design Principles of Metal-Cutting Machine Tools...
Design principles of metal-cutting machine tools, (Book ... The depth of cut is the thickness of the layer of the metal remove in one cut or pass measured in a direction perpendicular to the machine surface. The depth of cut is always perpendicular to the direction feed motion. Newer Post Older Post Home.

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To ensure that the cut is smooth and even for a 90 degree cut, a squaring arm or back gauge must be used. Minute burrs may be formed by the edge of the cut metal; these must be removed by grinding. If you use hydraulic shears, be careful of the little marks left by the cutting blades and holding clamps while working.

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To ensure that the cut is smooth and even for a 90 degree cut, a squaring arm or back gauge must be used. Minute burrs may be formed by the edge of the cut metal; these must be removed by grinding. If you use hydraulic shears, be careful of the little marks left by the cutting blades and holding clamps while working.

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This new edition considers the scientific principles of metal cutting and their practical application to manufacturing problems. It begins with metal cutting mechanics, principles of vibration and experimental modal analysis applied to solving shop floor problems.

Manufacturing Automation by Yusuf Altintas
Design principles of metal-cutting machine tools (DLC) 63012694 (OCoLC)2434852: Material Type: Document, Internet resource: Document Type: Internet Resource, Computer File: All Authors / Contributors: F Koenigsberger

Design principles of metal-cutting machine tools (eBook ... Metal cutting is used to remove excess metal from the surface of the workpiece with a tool to obtain the desired shape and size of the workpiece. The essence of the cutting process is that the workpiece cutting layer produces plastic deformation under the extrusion of the front edge of the cutter, and becomes a complicated process of cutting.

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