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Machine element refers to an elementary component of a machine. These elements consist of three basic types: structural components such as frame members, bearings, axles, splines, fasteners, seals, and lubricants, mechanisms that control movement in

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various ways such as gear trains, belt or chain drives, linkages, cam and follower systems, including brakes and clutches, and control components such as buttons, switches, indicators, sensors, actuators and computer controllers. While generally not

**Machine element - Wikipedia**

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Stiffness or rigidity: The machine should be rigid enough so that under the effect of applied forces for which it is designed there is no deformation of the machine or machine elements beyond the specified limits. If there is excessive deformation, there are chances of the failure of the machine elements and the whole machine.

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### **Classification of Machine ...**

Design of Machine Elements, Eighth Edition M. F. Spotts, T. E. Shoup, L. E. Hornberger, Pearson Prentice Hall, Upper Saddle River, NJ, 2004 (ISBN 0-13-048989-1). The eighth edition of



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Chakraborty, Department of Mechanical  
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Similar to Adaptive Design,  
Developmental Design uses existing  
concepts and technology but adds or  
combines new machine elements and

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components to create something unique. An example often referred to in Developmental Design is the motorcycle, which is essentially the marriage between a bicycle and a combustion engine.

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