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a rotary transformer is a specialized transformer used to couple electrical signals between two parts that rotate in relation to each other they may be either cylindrical or pancake shaped

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transformers are widely used in the electric power industry to increase voltages called step up transformers before long distance transmission via high voltage wires they are also used to decrease voltages called step down transformers to deliver power to homes and businesses

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the primary of the rotary transformer would be the ideal inductor because of the inherent gap of the rotary transformer there are several advantages to incorporating the resonant tank circuit into the rotary transformer first it minimizes the number of components in the power stage

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therefore in this paper two concepts of rotary transformers are analyzed where no core material is used on the rotating part the major advantage of these concepts is a simple and mechanically robust design with a lightweight construction resulting in very small unbalanced mass i introduction

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some transformers even provide a variable output by allowing connection to be made at different points on the secondary coil a step up transformer is one that increases voltage whereas a step down transformer decreases voltage

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a transformer is a device that connects two electrical circuits through a shared magnetic field transformers are used in impedance transformation voltage level conversion circuit isolation

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a transformer s main function is to step up or step down the voltage from the primary to the secondary windings this is done simply by adjusting the ratio of coils on one side to the other

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