

120mm Tandem Warhead System for Anti-Tank Application

TBRL has developed 120mm tandem shaped charge warhead systems for Anti-Tank Application. In tandem warhead system configuration, two shaped charge namely **main shaped charge** and **precursor shaped charge** are mounted in the same missile and are initiated one after the other with pre-defined time delay of the order of micro seconds. Both these shaped charges are mounted at a certain distance from each other keeping in view the warhead system constraints. It is necessary to protect the second charge (Main Shaped Charge) from the blast effects of the first charge (Precursor shaped charge) during the time delay between the initiations of two shaped charges.

The advanced homogeneous armour, add –ones like ERA and active armour protection systems are normally being used for protection of latest MBT's. Hence the requirement of tandem shaped charge warhead emerges. Various performance evaluation trials have been carried out to ensure the capability of tandem warhead to defeat ERA protected RHA.