

# Three Axis Pneumatic Dumping Trailer

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**Abstract:** *This project work titled “Three Axis Pneumatic Modern Trailer” has been conceived having studied the difficulty in unloading the materials. Our survey in the regard in several automobile garages, revealed the facts that mostly some difficult methods were adopted in unloading the materials from the trailer. The trailer will unload the material in only one single direction. It is difficult to unload the materials in small compact streets and small roads. In our project these are rectified to unload the trailer on all three sides very easily. Now the project has mainly concentrated on this difficulty, and hence a suitable arrangement has been designed. Such that the vehicles can be unloaded from the trailer in three axes without application of any impact force. By pressing the Direction control valve activated. The compressed air goes to the pneumatic cylinder through the valve. The ram of the pneumatic cylinder acts as a lifting trailer cabin. The automobile engine drive is coupled to the compressor engine, so that it stores the compressed air when the vehicle is running. This compressed air is used to activate the pneumatic cylinder, when the valve is activated.*

**Keywords:** Pneumatic Cylinder, Several Automobile Garages, Methods, Automobile Engine Drive, Vehicle Running, etc.

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