

Design of Automated Pallet Cleaner

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Abstract: *This study documented the current status of Metal pallet repair in the TATA MOTORS by identifying the types of processing and equipment usage in repair operations from an automation perspective. In 2012, the study's metal pallet repair companies received an average of 1.28 million cores (used pallets) for recovery. The majority of the received cores were pallets in the stringer form. The 48 x 40 inch pallet was the most typical size that was received and fixed. The application of companion stringers was the stringer repair technique that was most frequently utilised. It was found that most firms utilized high levels of manual labour, with limited machinery support. The board pallet sorting/stacking processes had the highest level of automation, while the inspection, nailing, and processes utilized manual labour.*

Keywords: Pneumatic, Motors, Cup Type wire brush, Nozzles

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