

## **ABSTRAC**

The production process is an important element that must be considered by the company. In other words the company must ensure that the production process works well. In the production process there are operators which is one of the factors for the production process to run well. The company must ensure the operator can work comfortably and avoid health problems. Ergonomics is one of the efforts to achieve operator health. In this study, the company that was the location of the study was PTPN VIII producing tea. In the process of tea production at PTPN VIII there is the movement of tea from grinding to conveyor. Based on observations, the operator experiences pain in certain body parts and fatigue during the tea transfer activity. This is because material handling equipment is hard to use, heavy and not ergonomic. After doing the calculation of REBA (Rapid Entire Body Assessment) on operator move MHE obtained value of 9 points that enter in high risk level. From current working conditions then company need a new ergonomic MHE . The design uses rational product design method according to Shigley. The result obtained an increase in REBA value that is equal to 2 points.