



FE Analysis and Optimization of CNC Turning Center Structure

By Ashutosh Joshi

LAP Lambert Academic Publishing Mai 2016, 2016. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - In machine tool design, to optimize the design finally, analysis becomes powerful tool for designer and thus it is required to analyze the various structures i.e. head, slant bed, column, slides, over arm etc. of machine tool before arriving at final design decision. Again, it is very difficult to analyze the structure analytically and moreover the accurate results for stress, deflection etc. are the limitations of this method. In machine tool, Structure like beds, bases, columns, box-type housing, over arms, carriages and tables are containing major weight. In machine tools 70-80 percentage of the total weight of the machine is due to the structure. The present paper deals with analyze and optimize the head stock and bed of CNC turning Center Q- Plus. Static structural analysis of head stock and bed of CNC turning center is carried out. Based on result of Stress and displacement obtained in static structural analysis optimization of existing structure has been done. 68 pp. Englisch.



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