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Executive Summary

Every manufacturer faces the challenge of managing production capacity. How effectively a company meets required capacity as compared to competitors will be a determinant of profitability and success.

This paper details the creation of a best of breed software that can act as a decision support system and help planners reschedule work, add shifts and make sure that the master production schedule is feasible before putting it into an MRP system.

As a part of my senior project I've created a Rough-Cut Capacity Tool that takes lead time into account and performs basic what if analysis on level loading a profile for a critical work center, thus facilitating the efforts of a master scheduler.