

CHAPTER 6

CONCLUSION

6.1 Conclusion

1. Set up a team, gathered ideas to identify the problem and design log sheet used to collect data.
2. Used brainstorming and QFD techniques to determine machine modification requirements. These machine modification requirements were then translated into corresponding design requirements.
3. Design requirements were converted to part design requirements.
4. Manufactured machine parts based on the part design requirements.
5. After the web cutter system was installed, the modified system was assessed in three aspects as follows:
 - 5.1 Machine runnability: Machine runnability was defined as the percentage of times the system is able to cut the paper before getting jammed. From observation after 2 months the web cutting had been installed, runnability was only 50 percent. Then the team continued to figure out the problem and correct the problem. Observation was made again 2 months after improvement and machine runnability rose to 96 percent.
 - 5.2 Sheet Break Loss Time: Sheet break loss time was defined as the time wasted as a result of paper jam in the machine. After implementing the web cutting system, sheet break loss time at coating head no. 2 was reduced from 680 minutes to 80 minutes per month or decreasing with 88.2 percent of existing loss time.
 - 5.3 Economic benefits: This reduction of loss time can be translated into 320,000 Baht saving per month or equal to 3,840,000 Baht per annum.

6.2 Further Work

There are a number of things the company may consider to obtain sustainable and continuous improvement and reduction of loss time. These are as follows.

1. The web cutting system at coating head no#2 should be regularly monitored to make sure that the system is always in good conditions and functioning properly.
2. To allow more precise and better detection of sheet break, the Team may consider installing more photoelectric switches.
3. Conduct further analysis into the possibility of installing the same cutting system at coater head 1 in order to further reduce total loss time.