









## 12 FUTURE DEVELOPMENT

Effectiveness of this project can be improved by following this recommendation:

- An additional power can be included for the absence of mains.
- The limited motor power limits the mechanical structure and a heavy structure can be obtained increasing power to have a smarter look & more effective power.
- Taking more care of the sensitive devices from the unwanted emissions can augment sensitively.
- Sorting by every way of dimension can be done by some modification.
- Improving the sensor quality, sorting can be done more accurately.
- Decreasing time delay, one can make the process fast.

## 13 CONCLUSION

Nowadays, in highly competitive world the industries need to be well equipped. The management of the highly integrity of supply of a production, through raw material to deliver finish product, through quality manufacturing is of paramount importance. To accelerate the process and to maintain the quality of the products, automation is required. Automatic production related process needs to be introduced. It is very necessary to bring diversity in products considering shape, size and colors, etc. By applying the idea of this project, an industry can easily sort the required product according to its height, convey them to the required destination and also count them. Though it has some limitations, by some modification this concept can be implemented in wide range of application.

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## References

- [1] About Automation, available at: <https://www.isa.org/about-isa/> (01March,2017).
- [2] About Conveyor Belt, available at: <http://www.metso.com/services/conveyors/conveyor-belts/> (02 March,2017).
- [3] About Machine Automation, available at: <https://www.mcmachinery.com/products-and-solutions/category/automation/> (02March,2017).
- [4] About Infineon's 8-bit product, available at: <http://www.infineon.com> (03 March,2017).
- [5] About Conveyor Belt Usage, available at: <http://www.conveyorbeltguide.com> (04 March,2017).
- [6] About Conveyor Belt Operation, available at: <http://www.beltcon.org.za/docs/B1%2013.pdf> (04 March,2017).
- [7] About Conveyor Belt Construction, available at: <https://www.accessconstructionequipment.com/products/conveyors.html> (06 March,2017).
- [8] About Conveyor Belt Convention, available at: <https://ccsbestpractice.org.uk/entries/conveyor-belt-usage> (07 March,2017).
- [9] About Conveyor Belt Classification, available at: <http://www.jervisbwebb.com/Categories/Conveyors.aspx?cid=2> (07 March,2017).
- [10] S. M. Shinde and R.B. Patil, "Optimization Technique Used for the Roller Conveyor System for Weight Reduction," *International Journal of Engineering Research & Technology (IJERT)*, vol. 1, no.5,2012.
- [11] D.A. Hounshell, *From the American System to Mass Production, The Development of Manufacturing Technology in the United States*, (The Johns Hopkins University Press,1984) 1800-1932.
- [12] Vanamane, S. S., Mane, P. A. and Inamder, K. H., "Design and its Verification of Belt Conveyor System Used for Mould Using Belt Comp Software," *International Journal of Applied Research in Mechanical Engineering*, vol. 1, no.1, pp. 48-52,2011.
- [13] I. A. Daniyan, A. O. Adeodu and O. M. Dada, "Design of a Material Handling Equipment: Belt Conveyor System for Crushed Limestone Using 3 roll Idlers," *Journal of Advancement in Engineering and Technology*, vol.1, no.1,2014.
- [14] Aniket A Jagtap, Shubham D Vaidya, Akash R Samrutwar, Rahul G Kamadi and Nikhil V Bhende, "Design of Material Handling Equipment: Belt Conveyor System for Crushed Biomass Wood Using V Merge Conveying System," *International Journal of Mechanical Engineering and Robotics Research*, vol.4, no.2,2015.
- [15] Seema S. Vanamane and Pravin A. Mane, "Design Manufacture and Analysis of Belt Conveyor System used for Cooling of Mould," *International Journal of Engineering Research and Applications (IJERA)*, vol.2, no.3,2012.
- [16] Mr. Memane Vijay and Prof. N. S. Biradar, "Design and Analysis of Belt Conveyor System of Sugar Industry for Weight Reduction," *Journal of Emerging Technologies and Innovative Research (JETIR)*, vol.2, no.5,2015.
- [17] About Proteus, available at: <https://www.labcenter.com> (15 March,2017).