ISSN 2349-6193
Impact Factor: 2.805

IJESMR

International Journal OF Engineering Sciences & Management Research

STRIP GUMMING MACHINE

JadhavM.B*[1], PansareC.S[2], ThombareB.B[3], BeloteM.D[4]
*[1]Department Of Mechanical Engineering, Jaihind Polytechnic Kuran India
[2]Department Of Mechanical Engineering, Jaihind Polytechnic Kuran India
[3]Department Of Mechanical Engineering, Jaihind Polytechnic Kuran India
[4]Department Of Mechanical Engineering, Jaihind Polytechnic Kuran India

Keywords: Paper , Strip, Gum , Roller, release paper

ABSTRACT
Now a days in packaging industry for paper sticking strip gumming machine is used but in such machine material handling is more. Release paper cannot reused to overcome that we construct a machine which reduces cycle time, increases productivity and less human effort are required due to that the overall profit is increases, less labour are required and manufacturing time is decreases. In the manufacturing of labals, posters,and the like, it is a frequently desirable to gum portion only of one face of the label or poster and to leave the reminder of the gummed side of the strip in an un gum condition.

INTRODUCTION
Now a days in printing and packaging industry separate working is done of manufacturing of stick tape and sticking. In this machine the sticking work and stick tape manufacturing is done at a time with the help of release paper and gum. Gumming or Gluing machines are useful to apply uniform layer of glue to your label and have various application like labeling, sticker making, book binding, poster making. It's a best low cost hand operated alternative to expensive labeling system. Primary aim of project is to developed a mechanism which reduces human efforts, reused release paper and manufacturing cost of label and time is decreases.

MATERIALS AND METHODS
1. Acrylic based adhesive Gum
2. Release Paper
3. PU/Rubber Roller
4. Belt Conveyer
5. Servo motor / Taper Motor.

DESIGN

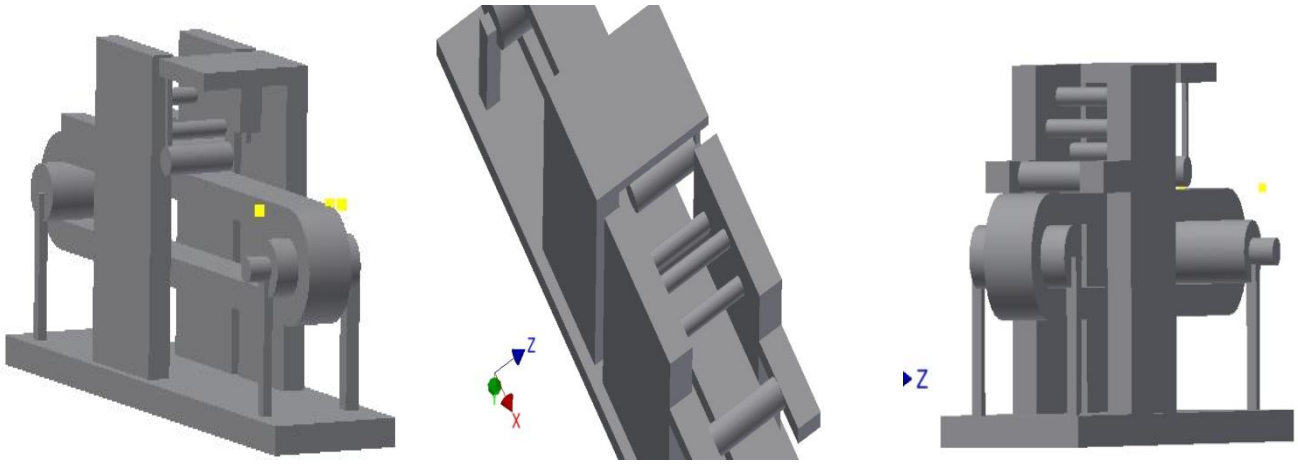

Fig 1 : Strip Gumming Machine

ISSN 2349-6193
Impact Factor: 2.805

IJESMR

International Journal OF Engineering Sciences & Management Research

RESULTS AND DISCUSSION

1. Productivity Increases
2. Machine Time Decreases

CONCLUSION

1. Material Handling Reduces
2. Manufacturing cost decreases
3. Reuse of release paper can be done
4. Overall time of manufacturing decreases

ACKNOWLEDGEMENTS

We are profoundly grateful to Prof. Mr. Shinde S.S. Sir (PROJECT COORDINATOR) for his expert guidance and continuous encouragement throughout to see that this project rights its target since its commencement to its completion. We would like to express deepest appreciation towards Prof. KOHINKAR Sir (HOD, Mech. Dept), whose invaluable guidance supported us in completing this project. At last we must express our sincere heartfelt gratitude to all the staff members of Mechanical Department who helped us directly or indirectly during this course of work.

REFERENCES

1. *Journal of the American Institute for Conservation, By Merrily A. Smith, Norvell M. M. Jones, II, Susan L. Page and Marian Peck Dirda;JAIC 1984, Volume 23, Number 2, Article 3 (pp. 101 to 113)*
2. *"Thomas Robins, Inventor, 89, Dies. Developer of Heavy-Duty Conveyor Belt Had Headed Hewitt-Robins Company"*. *New York Times*. November 5, 1957. *Retrieved 2013-12-18*.