iJRASET
International Journal For Research in Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 10 **Issue:** V **Month of publication:** May 2022

DOI: https://doi.org/10.22214/ijraset.2022.43478

www.ijraset.com

Call: 08813907089 | E-mail ID: ijraset@gmail.com

International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 10 Issue V May 2022- Available at www.ijraset.com

The Label Wizard Bottle Labeler

Ajay Jire[1], Pranay Khandekar[2], Dhiraj Bhakare[3], Shubham Ghulase[4], Akash Sonekar[5], Prof. Sagar Mohitwar[6]
[1, 2, 3, 4, 5]*Student, Dept. of Mechanical Engineering, H.V.P.M. College of Engineering and Technology, Amravati, India*
[6]*Prof. Dept. of Mechanical Engineering, H.V.P.M. College of Engineering and Technology, Amravati, India*

Abstract: ***With the ever increasing demand for professional product presentation, people are increasingly using "peel & stick" pressure sensitive labels to make their product stand out from the rest. Whether you're a home beer or wine maker, or a start up company looking for an inexpensive way to label your products, the Label Wizard, or the New Label Wizard- Adjustable model is perfect for just about every need. Up to now, it has been a challenge to consistently place these labels on the bottle in a level and straight position, without having to remove then reapply them. With its adjustable carriage, The Label Wizard not only stages the label for a consistent label height placement, but it precisely sets the label in a straight and level position on each and every bottle or jar. Labels go on straight; labels go on fast, no more crooked labels. So, you have tapered bottles not a problem with The Label Wizard.***

Keywords: label, Bottle, Label Wizard,

I. INTRODUCTION

The Label Wizard Bottle Labeller is a unique label applier that takes the headache out of labelling bottles and jars. It provides a simple, portable, and highly reliable means to manually pre-position square or rectangular “peel and stick” pressure sensitive labels for transfer to the bottle. With the ever increasing demand for professional product presentation, people are increasingly using "peel & stick" pressure sensitive labels to make their product stand out from the rest. Whether you're a home beer or wine maker, or a start-up company looking for an inexpensive way to label your products, the Label Wizard, or the New Label Wizard- Adjustable model is perfect for just about every need, The Label Wizard easily accommodates square or rectangular labels up to 5 1/2" (14 cm) long, and can be used on bottles or jars ranging from 2 1/4" to 3 1/4" (6.4cm to 8.3 cm) in diameter. The Label Carriage is made of specially formulated powder coated steel that holds your label in position, but will gently release even the stickiest of labels. The NEW Label Wizard- Adjustable model has the same great quality and features as the original; except it has an adjustable shelf so you can now label a variety of different size containers ranging from as small as 1" to 3 1/4" (2.5cm to 8.3cm) in diameter, and every size in between. Great for labelling small bottles

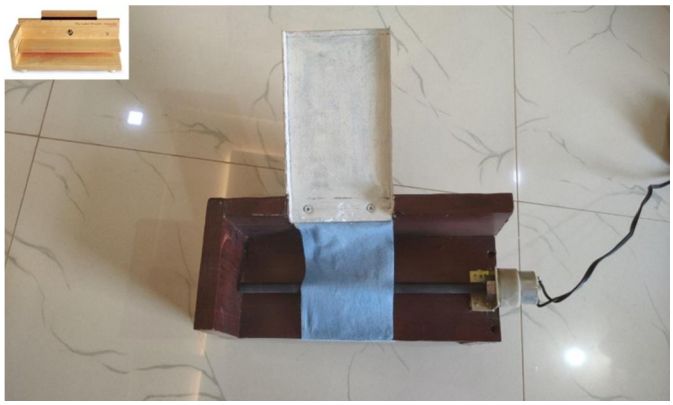
II. DESIGNED/WORKING AND CONSTRUCTION

First, determine the desired distance from the bottom of the bottle or jar (container), to the bottom of the label. Slide the Label Carriage and align the red line to the corresponding measurement on the Cradle Ruler. Place the container onto the Bottle Cradle, making sure that the container bottom is in contact with the End Plate. Next, peel off a label from its backing and place the label onto the Label Platform, allowing it to extend over the container. Finally, press the label onto the container. Lift the container off of the Cradle while continuing to press the label against the rest of the container.

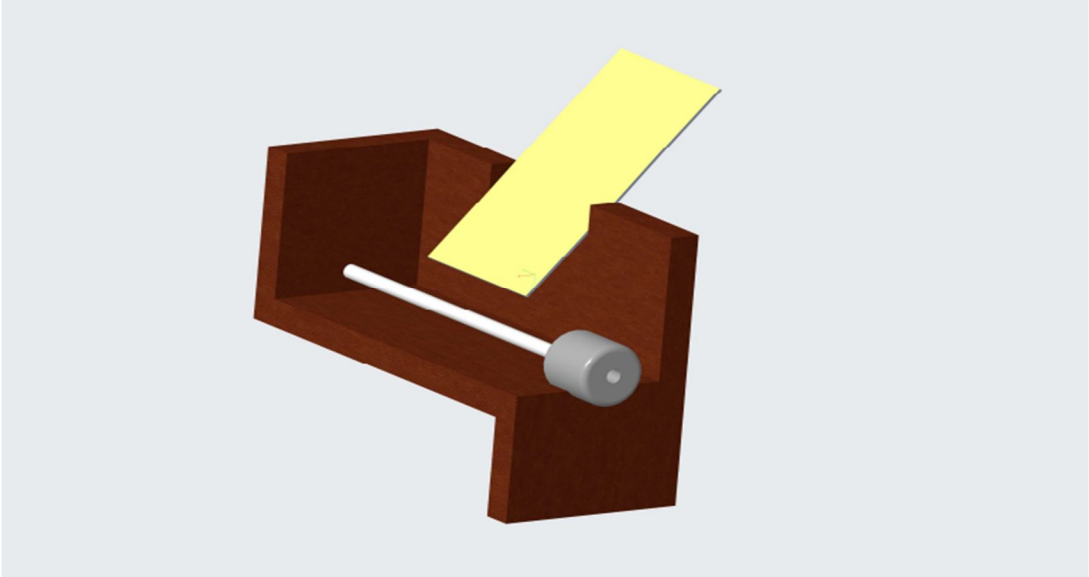


©IJRASET: All Rights are Reserved

ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 10 Issue V May 2022- Available at www.ijraset.com



III. CATIA DESIGN



IV. ADVANTAGES

1) *User Friendly:* User-friendlier machine increase the efficiency of operator and also create better working experience.
2) *Maintenance:* Machine with low maintenance increase the life of machine and also saves the valuable time and expenditures of company.
3) *Change Parts:* Minimum required change parts and change over time helps to increase the productivity.
4) *Power Consumption:* Lower Power Consumption of machine help you as well as country to saves valuable power

V. DISADVANTAGES

1) Libelling by Hand
2) Container Irregularities
3) Label Size & Material
4) Issues.

VI. APPLICATION

labeller Machines are widely used in Parma Syrup, Dry Syrup, Honey, Edible Oil, Lubricant Oil, Hair Oil, Shampoo, Phenol, Fruit Juice, Ready to Drink Juice, Cosmetics, Talcum Powder, Bleach Powder, Herbal Powder, Ayurveda Powder, Wine, Liquor, Electrical Components, Dental Products, Adhesive, Glue, Rubber Adhesive, Stationery, LIP Balm, Petroleum Jelly, Hair Developer, Hair Straightener, Hand Wash, Dish Wash, Hand Sanitizer, Cosmetic Lotion, Hair Wash, etc. Besides Packaging Equipment's, our another division is in to Printing of Self Adhesive Sticker Labels in Roll Form, Printed Shrink Sleeves, Duplex Cartons.

©IJRASET: All Rights are Reserved | SJ Impact Factor 7.538 | ISRA Journal Impact Factor 7.894 |

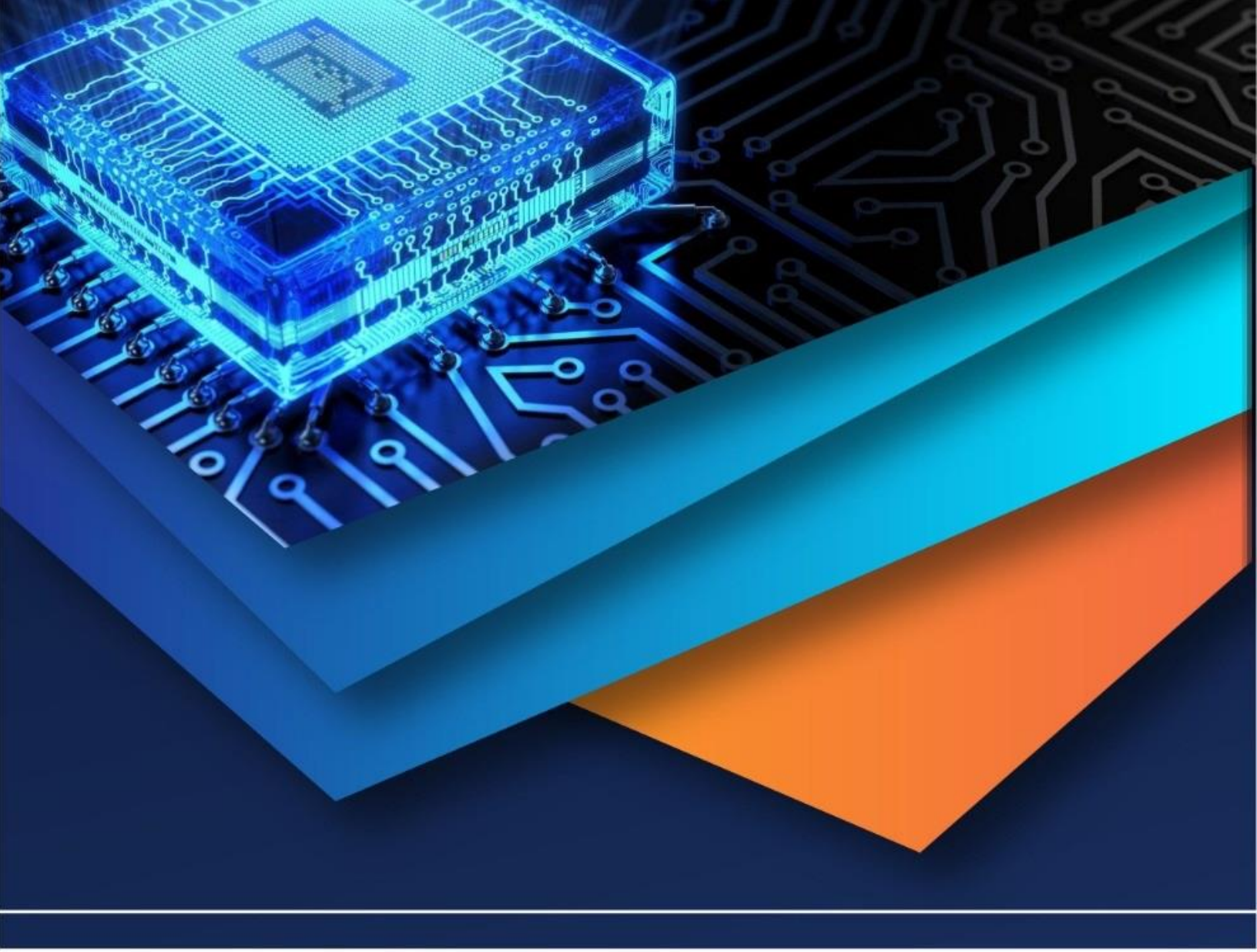
VII. CONCLUSION

We conclude that to study the various structure and design bottle material and also observe the various types of the label wizard bottle labeller and we also analysis the material of sticker label and their properties and also study the advantages of the label wizard bottle labeller and their cost in our prospective to recommend the material.

REFRANCES

[1] Admin, B., 2013. Bodine Electric Gearmotor Blog. [Online] Available at: https://gearmotorblog.wordpress.com/2013/11/20/gearmotors-forconveyors/ [Accessed 25 June 2016].
[2] Bolzoni, M. et al., n.d. Filling Systems in the Beverages Industry. [Online] Available at: http://www.ocme.it/adm/Media/gallery/Level_filler_en.pdf [Accessed 13 June 2016].
[3] Chamboko, T. & Mwakiwa, E., 2016. A review of smallholder dairy development in Zimbabwe 1983 to 2013: the effect of policies. Livestock Research for Rural Development, Volume 28.
[4] COCHRAN, D. W., SCHIANCHI, R., MUTTI, F. & LUPI, A., 2009. BOTTLE FILLING MACHINE WITH SENSOR AND METHOD THERE OF. US, Patent No. 20090178728.
[5] CZI, 2013. The 2012 CZI Manufacturing Sector Survey, Harare: Confederation of Zimbabwe Economics Department.

©IJRASET: All Rights are Reserved | SJ Impact Factor 7.538 | ISRA Journal Impact Factor 7.894 |



10.22214/IJRASET

45.98

IMPACT FACTOR: 7.129

IMPACT FACTOR: 7.429

INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Call : 08813907089 (24*7 Support on Whatsapp)