

## ABSTRAK

Mesin *venting* merupakan mesin yang digunakan untuk proses *venting* atau proses pelubangan pada *green tire* dengan menggunakan jarum *venting* yang bergerak secara vertikal dan digerakkan oleh *cylinder*. Sebelum masuk ke dalam proses *venting*, pada bagian dalam *green tire* disemprotkan *silicon* yang bertujuan agar *green tire* tersebut tidak lengket pada proses *curing* atau pemasakan. Setelah disemprotkan *silicon*, kemudian operator memindahkan *green tire* tersebut ke mesin *venting* untuk dilakukan proses *venting*. Dalam proses ini, operator secara manual memutar *green tire* untuk melubangi bagian yang belum terkena proses *venting*. Pada saat proses memutar *green tire* secara manual oleh operator, terdapat potensi terjadinya *scrap defect crease*. *Defect crease* adalah *defect* yang terjadi akibat adanya *silicon* yang menempel pada bagian samping atau *tread ending green tire* yg disebabkan oleh putaran tangan manual oleh operator. Pada modifikasi ini, penulis ingin menurunkan *scrap defect crease* yang terjadi pada proses *venting* dengan memodifikasi as *roll driver* sehingga dapat berputar secara otomatis, sehingga operator tidak perlu memutar *green tire* secara manual. Dari hasil modifikasi terdapat penurunan *scrap defect crease* yang semula adalah 73 ppm pada periode Mei-Juli 2023, menjadi 5 ppm pada periode September-November 2023.

**Kata kunci :** Mesin *venting*, modifikasi, proses pelubangan, *scrap defect crease*, *silicon*,



**MODIFICATION OF VENTING MACHINE TO REDUCE SCRAP DEFECT  
CREASE IN TIRE MANUFACTURING COMPANY**

**ABSTRACT**

*The venting machine is a machine used for the venting process or the process of punching holes in the green tire using a venting needle that moves vertically and is driven by a cylinder. Before entering the venting process, the inside of the green tire is sprayed with silicon to prevent the green tire from sticking during the curing process. After being sprayed with silicon, the operator then moves the green tire to the venting machine for the venting process. In this process, the operator manually rotates the green tire to perforate the part that has not been exposed to the venting process. During the process of manually rotating the green tire by the operator, there is a potential for crease defect scrap to occur. Crease defect is a defect that occurs due to the presence of silicon attached to the side or tread ending of the green tire caused by manual hand rotation by the operator. In this modification, the author wants to reduce the scrap defect crease that occurs in the venting process by modifying the roll driver so that it can rotate automatically, so that the operator does not need to rotate the green tire manually. From the modification results, there is a decrease in scrap defect crease which was originally 73 ppm in the May-July 2023 period, to 5 ppm in the September-November 2023 period.*

**Keywords :** Venting machine, modification, perforating process, scrap defect crease, silicon,

