Jetring is a modification of conventional ring spinning system based on the placement of an air nozzle below the drafting system. The principle of the system is to inject the pressurized air into the nozzle and to form airflow in the nozzle. One of the main components of the system is the nozzle and compressed air. Therefore, design features of the nozzle and pressurized air affect the airflow attributes and so the yarn quality. In literature, the effect of nozzle parameters and air pressure were intensively analysed. Main hole and injector diameter, injector angle are some of the nozzle parameters. The studies centre on the effect of main hole diameter and air pressure level. In the studies, it was analysed similar injector angle range. Furthermore, it was determined the effect of mentioned parameters depending on the changes in yarn hairiness. However, there are limited findings about the changes in yarn tenacity. In this study, it was analysed the effect of injector angle on yarn hairiness and also yarn tenacity. Three different injector angles and four different air pressure were used. Consequently, it was found that 15° gives less s3 hairiness values as well as 45°. As to yarn tenacity, the findings of 45° are more stable comparing with other angles.