Jetring is a modification of the conventional ring spinning system and based on the usage of an air nozzle and pressurized air during yarn spinning. This study researched the characteristic properties of Jetring yarns and compared Jetring and conventional ring spun yarn properties. For the Jetring yarn production, three different nozzle types having different injector angles and four different air pressure levels were used. In addition to 30° and 45° injector angles, which are widely reported in literature, the effect of an angle of 15° was also studied. At the end of the study, the differences between Jetring and ring spun yarns were determined. It was found that the Jetring spinning system produces yarns having a hybrid character between conventional ring and air-jet yarns. Additionally, the yarn properties of Jetring yarns highly depend on nozzle structural parameters and air pressure level.