CURRENT STATE AND PROSPECTS OF DEVELOPMENT SCOOTER OF MARKET IN UKRAINE Ahapov O.M., Zubkov K.I. National Technical University «Kharkiv Polytechnic Institute», Kharkiv

Urban development conditions and excessive load on public transport are some of the factors that contribute to the growth of the scooter market in Ukraine. This is supported by a steady demand for vehicles that are notable for their manoeuvrability and cost-effectiveness.

Significant emphasis is placed on the development of eco-friendly scooter models that run on alternative energy sources. This trend helps to reduce air and noise pollution in the city, which is a key aspect. The share of electric scooters is rather insignificant compared to classic scooters with internal combustion engine, but it tends to grow.

It should be noted that the scooter market in Ukraine is divided into categories both by age of transport and by engine capacity. Obsolete models up to 2005 year of production (y/p), middle-aged (2005...2020 y/p) and modern (from 2020 y/p). The predominant number of outdated models is on the Ukrainian market (40% of the total number of scooters), which lag behind in their technical characteristics, which negatively affects the safety of driving and the environment. The distribution by engine capacity is as follows: small-cubic-inch (engine capacity up to 150 cm3), medium-cubic-inch (engine capacity 150...300 cm3), large-cubic-inch (engine capacity over 300 cm3).

Medium-cubature scooter models prevail on the roads, which are the most popular, concentrating such characteristics as power reserve, high speed, acceleration, economy and small size.

The market leaders are such manufacturers as Honda, Suzuki, Yamaha (Japan), Aprilia, Gilera, Piaggio (Italy), Kymco, Sym (Korea). For many of these manufacturers, recently engines are produced at the facilities of Zongshen (China).

The trend of electric scooter development has been supported by Honda (Japan), which introduced the "Honda HM1e" model in 2023 for the European market.

To promote the development of the scooter market, several key aspects need to be implemented: firstly, to contribute to the improvement of the legal framework to improve road safety, secondly, to ensure the development of infrastructure to create enough parking spaces and repair shops that will provide quality maintenance services, and to help spread the message to the public about the environmental benefits of twowheeled electric transport.