

Industry in the Czech Republic

Information Sheet

Engineering industry

The engineering manufacture base is made up of about 70,000 companies (including electronics and electrical equipment, machinery, production of motor vehicles and other means of transport, etc). These companies are specifically involved in the field of energy engineering, transport engineering, production of machining and shaping tools and production of structures and metal components.

Czech engineering companies supply complete industrial equipment – i.e. turbines, machining and shaping tools, air-conditioning equipment, building machines, agriculture machines, food processing machines and machines in healthcare, chemical and textile industry. Sector strengthens the cooperation with technical universities and benefits from using new technologies – nanotechnologies, sophisticated electronics, mechatronics and robotics. Czech production of machine tools per capita ranked as the 8th highest in the world in 2022.

Electronics and electrical Engineering

The electrical engineering industry is one of the crucial sectors in the manufacturing industry due to the high added value of products that fall into the category of high and medium technology sectors. The companies operating in this sector try to develop and make accessible transformational digital technologies as Blockchain, artificial intelligence or industrial application of 5G networks. In particular electrical engineering (electric engines, generators, transformers, electric switchgear systems, cables and insulated wires) are produced by the electrical industry. Computer and office technology, consumer electronics, hardware and automated electronics and medical and optical equipment rank among other sectors of electrical industry production. ABB (electric installation), Siemens (electric engines), Meomed (medical equipment), Meoptaoptika (optical, optomechanical and optoelectric systems) are among the most significant producers in this sector.

Car industry

The Czech automotive industry accounts for 37% of the manufacturing industry and employs around 500,000 employees including indirect jobs. 1.25 million road vehicles were produced in 2022, representing a year-on-year increase of 9.4%. Also, the number of exported road vehicles increased from the 1.025 million in 2021 to over 1.15 million road vehicles in 2022. The year 2022 was exceptional for the production of motorcycles as 1,624 were manufactured, seeing a 57% increase compared to 2021. Production of passenger vehicles once again accounted for the majority of motor vehicles produced as Škoda Auto retained the largest share of production in the Czech Republic with almost 57%, followed by Hyundai and Toyota. The Czech Republic ranked 3rd in passenger vehicle production just behind Germany and Spain in 2022 in EU. Over 87,000 battery-powered vehicles and almost 48,000 plug-in hybrids were produced, accounting for a total of 11% of the passenger vehicle production in the Czech Republic in 2022. Additionally, almost 60 electric buses were produced in 2022. The main bus producers are SOR Libchavý and IVECO Czech Republic.

Robotics

In the industrial sector, manufacturing 64% of companies with more than 250 employees use robotics. Robots are mostly used in automotive manufacturing; in the chemical industry along with the pharmaceutical and plastics industries; and in the metallurgical industry. In terms of using robots, Czech companies were at the EU average in international comparisons. Regarding comparisons among large companies with more than 250 employees using robotics, the Czech Republic ranked 4th behind Slovenia, Croatia and Denmark. When looking at the application of only industrial robots in large companies, the Czech Republic is above the EU average – in 2nd place.