

## THE BEGGININGS OF INDUSTRIAL REVOLUTION

The Industrial Revolution was a period from the 18th to the 19th century where major changes in agriculture, manufacturing, mining, transport, and technology had a profound effect on the socioeconomic and cultural conditions starting in the United Kingdom, then subsequently spreading throughout Europe, North America, and eventually the world. Starting in the later part of the 18th century, there began a transition from previously manual labor and draft-animal-based economy towards machine-based manufacturing. It started with the mechanization of the textile industries, the development of iron-making techniques and the increased use of refined coal. Trade expansion was enabled by the introduction of canals, improved roads and railways. The Main difference between industrial revolution and time before that is that the people were not using a manufacture machine a other systems for easier working. In 18th and 19th century there was a rule that the young poor children had to work and there were also many injuries. In these types was the labor more developed: Textiles – Cotton spinning ,Spinning Jenny, and Spinning Mule This was patented in 1769 and so came out of patent in 1783. The end of the patent was rapidly followed by the erection of many cotton mills. Similar technology was subsequently applied to spinning worsted yarn for various textiles and flax for linen.

Steam power – The improved steam engine was initially mainly used for pumping out mines, but from the 1780s was applied to power machines. This enabled rapid development of efficient semi-automated factories on a previously unimaginable scale in places where waterpower was not available.

Iron making – In the Iron industry, coke was finally applied to all stages of iron smelting, replacing charcoal. This had been achieved much earlier for lead and copper as well as for producing pig iron in a blast furnace.

So these things has changed the hand labor around world with new inventions. In most of cities for example in USA people started to build a steam factories.



HULKA, PUCEK