

MINING MACHINERY ENGINEERING

Mining Machinery Engineering is an interdisciplinary branch of [engineering](#) that applies the principles of [mechanical engineering](#), [electrical engineering](#) and [mining engineering](#) for analysis, design, manufacturing and maintenance of [mining equipment](#). It includes study of various aspects of equipment used in [earthworks](#), [mineral processing](#), [bulk material handling](#), [drilling](#) and [construction](#).

Surface mining equipment evolved at a high pace in the 20th century as the scale of mining grew up. In the first twenty years of the 1900s, steam power was largely replaced by [internal combustion engines](#) and [electric motors](#). Till the 1970s such equipment mainly used mechanical system and cables for power transmission after which they started to be replaced by [hydraulic drive system](#) for small machines. However, mechanical and cable drives are still dominant in large machines. Similar development took place in the development of underground machinery. [Drilling](#) and [blasting](#) replaced manual cutting of ores. Lately, use of [continuous mining machines](#) has become order of the day to comply with environmental regulations, protect surface features and also to achieve increased production rate. As the concern for safety in mines increased and highly stringent regulations were put in place, it required mining machinery engineers to be highly conversant with such regulations.

Since Mining Machinery Engineering is a wholesome branch, the course of which covers disciplines like [Mechanical Engineering](#), [Mining Engineering](#), [Mineral Engineering](#), [Electrical Engineering](#), the employment opportunities are tremendous. Mining Machinery Engineering provides excellent career opportunities in various industries such as [mining](#), [heavy earth moving equipment](#), [construction industry](#), mineral processing and other related industries.