



Drilling and Blasting of Rocks

By C. Lopez Jimeno, E. Lopez Jimeno, Francisco Javier Ayala Carcedo

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Rock breakage with explosives has existed since the seventeenth century when black powder came into use in mining. Since then it has progressed from the invention of dynamite to the use of heavy ANFO. During the past two decades, there have been numerous technical contributions which have brought a better understanding of rock fragmentation with explosives, an improvement in drilling equipment and a noticeable evolution in the development of new explosives and blasting accessories. The Geomining Technological Institute of Spain (ITCE), aware of this progress and of the importance which the breakage process has acquired in mining and civil engineering projects, has ordered the publication of *Drilling and Blasting of Rocks*.

The purpose of this Handbook is to give basic knowledge of the drilling systems, the types of available explosives and the accessories and the parameters that intervene in blast designing, whether controllable or not; at the same time the objectives and contents contribute to improved safety in mining. The Handbook is meant for all professionals who are involved with explosives in mining operations and civil engineering projects, as well as for students of technical schools.

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