

Atlas Copco Face Drilling Rigs

Technical specification Rocket Boomer® L2 C

Two boom hydraulic tunnelling and mining rig with computer controlled drilling system and COP 1838 rock drills for high accuracy and productivity

For sections up to 104 m²



Picture shows rig with optional equipment mounted.

Features

Rock drill

COP 1838 rock drill with modern double reflex dampening giving genuine high speed drilling and excellent drill steel economy. New lubrication system with separate lubrication of driver and gear, pressurized sidebolts and mating surfaces gives reliable operation, low maintenance cost and long intervals between overhauls.

Drilling system

The state-of-the-art computer controlled drilling system RCS (RigControl System) with interactive operators panel and full-colour display. Standard computer controlled automatic functions in the drilling system include soft collaring and anti-jamming protection as well as continuous regulation of the rock drill and provide high performance and outstanding drill steel economy. With the integrated diagnostic system it is simple and fast to identify faulty electronic components.

The electronic hardware is of modular design and can be interchanged with similar hardware on the rig.

Hydraulic boom

BUT 35 heavy-duty booms for direct, fast and accurate positioning between holes. New powerful feed rotation head increases coverage.

Carrier

Sturdy, articulated carrier with four wheel drive for easy manoeuvring. Powered by a turbocharged, water-cooled 4-cylinder, low emission diesel engine for high mobility. Four jacks for stable set up.

General

Basic rig includes FOPS approved protective roof, adjustable operator's control panel, fixed driver's seat, hydraulic driven screw compressor and water booster pump, cable reel and working lights.

Main components

Rock drill	2 x COP 1838
Feed	2 x BMH 6800-series
Booms	2 x BUT 35
Drilling system	RCS vers 3

Atlas Copco

Atlas Copco Face Drilling Rigs Technical Specification

**Australian Drilling Industry Training
Committee Limited**



Atlas Copco Face Drilling Rigs Technical Specification:

The Drilling Manual Australian Drilling Industry Training Committee Limited, 2015-04-01 An Invaluable Reference for Members of the Drilling Industry from Owner Operators to Large Contractors and Anyone Interested In Drilling Developed by one of the world's leading authorities on drilling technology the fifth edition of The Drilling Manual draws on industry expertise to provide the latest drilling methods safety risk management and management practices and protocols Utilizing state of the art technology and techniques this edition thoroughly updates the fourth edition and introduces entirely new topics It includes new coverage on occupational health and safety adds new sections on coal seam gas sonic and coil tube drilling sonic drilling Dutch cone probing in hole water or mud hammer drilling pile top drilling types of grouting and improved sections on drilling equipment and maintenance New sections on drilling applications include underground blast hole drilling coal seam gas drilling including well control trenchless technology and geothermal drilling It contains heavily illustrated chapters that clearly convey the material This manual incorporates forward thinking technology and details good industry practice for the following sectors of the drilling industry Blast Hole Environmental Foundation Construction Geotechnical Geothermal Mineral Exploration Mineral Production and Development Oil and Gas On shore Seismic Trenchless Technology Water Well The Drilling Manual Fifth Edition provides you with the most thorough information about the what how and why of drilling An ideal resource for drilling personnel hydrologists environmental engineers and scientists interested in subsurface conditions it covers drilling machinery methods applications management safety geology and other related issues

Theory and Technology of Rock Excavation for Civil Engineering Dingxiang Zou, 2016-11-21 This book summarizes the technical advances in recent decades and the various theories on rock excavation raised by scholars from different countries including China and Russia It not only focuses on rock blasting but also illustrates a number of non blasting methods such as mechanical excavation in detail The book consists of 3 parts Basic Knowledge Surface Excavation and Underground Excavation It presents a variety of technical methods and data from diverse sources in the book making it a valuable theoretical and practical reference resource for engineers researchers and postgraduates alike

Mining in the New Millennium - Challenges and Opportunities Tad.S. Golosinski, 2020-08-18 This text concentrates mainly on the Polish mining industry It involves mining of a significant quantities of lignite coal copper sulphur and many industrial minerals which are all discussed in this book

Design Criteria for Drill Rigs C.P. Chugh, V.M. Sharma, Ken Steele, 2020-08-13 This text discusses factors such as mast overload capacity of drawworks and deviation in the hole to be drilled and the strata to be drilled An omnibus approach to drilling techniques and problems is adopted

Rock Fragmentation by Blasting Pradeep K. Singh, Amalendu Sinha, 2012-11-05 Rock Fragmentation by Blasting contains the papers presented at the 10th International Symposium on Rock Fragmentation by Blasting New Delhi India 26-29 November 2012 and represents the most advanced forum on blasting science and technology The contributions cover all major recent advancements in blasting and

fragmentation from realistic tre **Ground Engineering** ,1988 *Mining and Rock Construction Technology Desk Reference* Agne Rustan,Claude Cunningham,William Fourney,Alex Spathis,K.R.Y. Simha,2010-11-10 A comprehensive and illustrated desk reference with terms definitions explanations abbreviations trade names quantifications units and symbols used in rock mechanics drilling and blasting Now including rock mechanics as well this updated edition presents 5127 terms 637 symbols 507 references 236 acronyms 108 formulas 68 figures 47 ta Tunneling in Rock by Drilling and Blasting Alex Spathis,R.N. Gupta,2012-11-05 Tunnelling in Rock by Drilling and Blasting presents the latest developments in the excavation of tunnels using the drilling and blasting method Examples of work conducted throughout the world including the Indian sub continent Australia and Sweden amongst others are discussed These tunnel projects serve to illustrate the challenges and i *CIM Bulletin* Canadian Institute of Mining and Metallurgy,2002 Mine Planning and Equipment Selection 2004 Monika Hardygóra,Gabriela Paszkowska,Marek Sikora,2004-08-15 Spearheading the promotion of international technology transfer in the fields of mine planning mining systems design equipment selection and operation techniques the International Symposium on Mine Planning and Equipment Selection is recognised by the mining society as a key annual event in highlighting developments within the field Here in this volume proceedings from the thirteenth annual symposium concentrate on the following major topics open pit and underground mine planning modelling and design geomechanics mining and processing methods design monitoring and maintenance of mine equipment simulation optimalization and control of technological processes management mine economics and financial analysis health safety and environmental protection Including 147 papers from leading experts and authorities Mine Planning and Equipment Selection undoubtedly provides valuable information and insight for a range of engineers scientists researchers and consultants involved in the planning design and operation of underground and surface mines **Western Construction** ,1972-07 Tunnelling '94 Vidar Aarvold,I. L. J. Chudleigh,N. S. Webb,G. A. Featherstone,Manfred Bandmann,H. Ramisch,Uwe Beckmann,B. J. Cole,H. J. Lees,Walter Dietz,D. F. Fawcett,P. J. Chapman,D. A. Barratt,M. P. O'Reilly,John Temporal,Jon Baston-Pitt,F. J. Fredriksen,Roald Aabøe,G. J. Hasle,D. A. Hobson,D. C. Gilchrist,Sandor Jancsecz,Walter Steiner,J. P. Farrow,P. M. Claye,R. B. Warren,M. A. Ginary,R. Matthews,H. Kruizenga,C. R. Weeks,T. R. Winterton,Y. Leblais,L. Leblond,Yannis Malios,J. Y. Peron,P. Marcheselli,P. Catling,J. Scholey,A. D. Murray,Bruno Marrai,P. G. Davies,Guilherme Tibau,Erik Gutenwik,Maurício Santana,Pierre Jean Pellegrini,R. J. Fowell,G. Richardson,M. J. Gollick,J. G. Beatty,R. J. Ganey,J. E. Killingsworth,L. J. Arthur,A. W. Darby,B. Rafoneke,Graham Daws,Dan MacDonald,Nicola Innaurato,Renato Mancini,Enrico Rondena,Attilio Zaninetti,A. W. P. Coutts,H. R. Davies,R. S. Curtis,A. P. Finch,R. P. Lovat,A. P. Deane,K. T. Burgess,M. C. Knights,M. A. Oswell,I. W. Farmer,B. W. L. Mak,Daniel Morfeldt,C. J. H. Martin,G. Pakes,Sigurdur Finnsson,H. A. Janzon,C. Laughton,Y. Abd Al-Jalil,R. Remington,H. P. Caspe,A. Y. Kim,L. J. Bergen,J. R. Araujo,Klaus Axhausen,J. E. Hellings,R. J. Mair,D. I. Harris,J. P. Love,D. Blakey,B. M. New,K. H. Bowers,P. P. Nelson,Richard Harpf,C. Kettle,2012-12-06 It is now more

than twenty years since a proposal was first mooted to hold an international tunnelling symposium in Britain At the time of the first symposium held in London in 1976 the Channel Tunnel project had just been shelved Last weekend a charity walk was held in the finished tunnel which will be open for business later in the year Tunnels have figured prominently and at times spectacularly in the development of national and international links and it is hoped that such links gather pace in the future It is particularly pleasing that Alastair Biggart of Storebrelt has agreed to deliver the twenty sixth Sir Julius Wernher Memorial Lecture of the Institution of Mining and Metallurgy entitled The changing face of tunnelling at the start of this event Although almost every edition of the technical journals on tunnelling reports another 1 billion scheme somewhere in the world it would be unfair of me to suggest that tunnelling is restricted to these prestigious schemes for major transport links Much of the work that makes modern life possible receives hardly a mention outside the technical press and one suspects that society at large applies the out of sight out of mind attitude even more readily to underground construction than it does to other forms of engineering Clearly there is a continuing need to improve the capacity and performance of our infrastructure while having a careful regard for the environment

Quarterly Bulletin of the Canadian Mining Institute
Canadian Institute of Mining and Metallurgy, Canadian Institute of Mining, Metallurgy and Petroleum, 1928 *Minerals Yearbook*, 1991

Electrical Measuring Instruments and Measurements S.C. Bhargava, 2012-12-27 This book written for the benefit of engineering students and practicing engineers alike is the culmination of the author's four decades of experience related to the subject of electrical measurements comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions The unique feature of this book apart from covering the syllabi of various universities is the style of presentation of all important aspects and features of electrical measurements with neatly and clearly drawn figures diagrams and colour and b w photos that illustrate details of instruments among other things making the text easy to follow and comprehend Enhancing the chapters are interspersed explanatory comments and where necessary footnotes to help better understanding of the chapter contents Also each chapter begins with a recall to link the subject matter with the related science or phenomenon and fundamental background The first few chapters of the book comprise Units Dimensions and Standards Electricity Magnetism and Electromagnetism and Network Analysis These topics form the basics of electrical measurements and provide a better understanding of the main topics discussed in later chapters The last two chapters represent valuable assets of the book and relate to a Magnetic Measurements describing many unique features not easily available elsewhere a good study of which is essential for the design and development of most electric equipment from motors to transformers and alternators and b Measurement of Non electrical Quantities dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters Other useful features of the book

include an elaborate chapter by chapter list of symbols worked examples exercises and quiz questions at the end of each chapter and extensive authors and subject index This book will be of interest to all students taking courses in electrical measurements as a part of a B Tech in electrical engineering Professionals in the field of electrical engineering will also find the book of use **Construction in Southern Africa** ,1979 **World Highways** ,2005 *Australian Journal of Mining* ,1999-12 **Tunnels & Tunnelling** ,1997 **SME Mining Engineering Handbook, Third Edition** Peter Darling, Society for Mining, Metallurgy, and Exploration (U.S.),2011 This third edition of the SME Mining Engineering Handbook reaffirms its international reputation as the handbook of choice for today s practicing mining engineer It distills the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining professionals Virtually all of the information is original content representing the latest information from more than 250 internationally recognized mining industry experts Within the handbook s 115 thought provoking chapters are current topics relevant to today s mining professional Analyzing how the mining and minerals industry will develop over the medium and long term why such changes are inevitable what this will mean in terms of challenges and how they could be managed Explaining the mechanics associated with the multifaceted world of mine and mineral economics from the decisions associated with how best to finance a single piece of high value equipment to the long term cash flow issues associated with mine planning at a mature operation Describing the recent and ongoing technical initiatives and engineering developments in relation to robotics automation acid rock drainage block caving optimization or process dewatering methods Examining in detail the methods and equipment available to achieve efficient predictable and safe rock breaking whether employing a tunnel boring machine for development work mineral extraction using a mobile miner or cast blasting at a surface coal operation Identifying the salient points that dictate which is the safest most efficient and most versatile extraction method to employ as well as describing in detail how each alternative is engineered Discussing the impacts that social and environmental issues have on mining from the pre exploration phase to end of mine issues and beyond and how to manage these two increasingly important factors to the benefit of both the mining companies and other stakeholders

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