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Mine & Mill Equipment Costs Estimator's Guide, Capital & Operating Costs

Cost Mine
The Cost Data and Advice You Need to Make Informed Mining Decisions

The following listings of equipment capital and operating costs are taken directly from the current [Mining Cost Service](#) Manual and [Mine and Mill Equipment Cost Estimator's Guide](#). In addition to the data listed here, these manuals contain analyses for 14 additional excavators, 10 additional haulers, 20 loaders, 10 graders, and 20 additional drills, plus 3,000 other sizes and types of equipment used in surface and underground mining, reclamation, and milling. The Mining Cost Service Manual contains only part of the equipment cost data, but it also includes a broad range of important data about other mining cost centers, such as labor, smelting, and electric power.

The equipment listed here represents a typical suite of equipment for a 10,000 tonne per day (5,000 tpd ore + 5,000 tpd waste) surface mine with a 3,500-ft. ore haul and a 1,800-ft. waste haul. This equipment list will be maintained permanently at this web site and the costs will be updated periodically for your reference. Costs are typical U.S. costs in U.S. dollars. They can be adjusted for other economies by adjusting to local unit prices or direct proportion to the unit prices listed here.

MINING EQUIPMENT FLEET - 10,000 tonne per day (ore + waste) open pit mine

Last Updated: October 2009

Capital Costs and Specifications						
ITEM	No. of Units	SPECIFICATIONS	Weight/unit (lbs)	MOTOR TYPE	HP	Capital Cost/unit (US\$)
shovel, hydraulic	2	5.2 cu yd (4.0 cu m) bucket capacity, 23.6 ft (7.2 m) dump height	131,000	diesel	347	5932,000
loader, wheel	3	9.0 cu yd (6.9 cu m) bucket, 12'1" (3.7 m) dump height	114,000	diesel	525	718,800
truck, rear-dump	4	80 ton (54.4 mt), 46 cu yd (35.2 cu m), mechanical drive	90,940	diesel	650	599,000
drill, rotary (concrete)	3	5.13" to 7.88" (13.0-20.0 cm) hole, diesel, 25 ft (7.6 m) rod length		diesel	475	598,100
tractor, crawler (dozer)	4	13.7' (4.2 m) maximum blade width	29,100	diesel	145	297,000
grader, road	3	14 ft (4.3 m) blade width	52,200	diesel	225	447,125
truck, water	3	5,000 gallon (18,927 liter) water tanker		diesel	175	253,000
truck, service	3	off-road tire service truck		diesel	82	158,000
truck, shot loader	2	1,000 lb (454 kg) per minute capacity, 4HPD		diesel	210	77,800

Hourly Operating Costs (US\$)

Unit Prices:									
Repair Labor	\$55.29 per hour			Natural Gas	\$6.229 per MCF (\$5,904 per gigajoule)				
Diesel Fuel	\$2.186 per gallon per gallon (\$0.576 per liter)			Electric Power	\$0.071 per kWh				
Gasoline	\$2.719 per gallon per gallon (\$0.718 per liter)			Lube Oil	\$7.500 per gallon (\$1.981 per liter)				
ITEM	OVERHAUL PARTS	OVERHAUL LABOR	MAINT. PARTS	MAINT. LABOR	FUEL/POWER	LUBE	TIRES	WEAR PARTS	TOTAL
shovel, hydraulic	67.35	\$6.68	\$31.03	\$10.00	\$29.33	\$6.18	\$0.00	\$6.12	\$74.32
loader, wheel	3.30	2.99	6.12	5.56	\$4.77	5.59	21.56	0.64	\$60.53
truck, rear-dump	1.90	2.30	3.53	4.28	27.14	9.26	12.10	0.00	\$46.53
drill, rotary (concrete)	6.63	7.63	5.43	5.75	32.19	9.52	0.00	10.14	76.68
tractor, crawler (dozer)	2.04	2.46	3.05	3.79	12.12	2.14	0.00	7.83	33.36
grader, road	3.56	3.34	5.86	4.23	14.28	3.19	1.58	0.99	40.43
truck, water	2.05	2.60	3.83	5.19	13.04	1.94	2.32	0.00	31.13
truck, service	1.11	1.18	2.07	2.19	5.54	1.10	0.45	0.00	13.86
truck, shot loader	0.55	0.58	1.02	1.08	13.40	1.04	0.99	0.00	26.17

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Equipment Cost Guide

Mike Jess



Equipment Cost Guide:

Construction Equipment Guide David A. Day, Neal B. H. Benjamin, 1991-09-03 With the construction boom reaching over 300 billion by the early 1990s in the United States alone this comprehensive and accessible guide is more important than ever for the budget minded contractor Presenting quick engineering know how for the performance and satisfactory completion of construction using commonly recognized equipment it deals with the physical concepts of the work the surrounding conditions and equipment requirements with an emphasis on controls governing the equipment s performance

Construction Equipment Cost Guide Volume 1 E. Neely, 1975 **Construction Equipment Cost Guide** Edgar S. Neely, 1977 Construction Equipment Cost Guide. Volume 1 , 1977 This guide presents a systematic approach for Department of the Army field pricing support personnel estimators negotiators price analysts auditors etc to use in estimating hourly ownership and operating rates for construction equipment The guide is intended for use in negotiated construction procurements which require an independent government estimate by regulation Author *Construction Equipment Cost Guide* E. Neely, CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL., 1977 This guide presents a systematic approach for Department of the Army field pricing support personnel estimators negotiators price analysts auditors etc to use in estimating hourly ownership and operating rates for construction equipment The guide is intended for use in negotiated construction procurements which require an independent government estimate by regulation Author **Construction Equipment Cost Guide** Construction Engineering Research Laboratory, 1975 **Construction Equipment Cost Guide** Edgar S. Neely, 1977 Cost Reference Guide for Construction Equipment Equipment Guide-Book Company, 197? *Proving and Pricing Construction Claims* Robert F. Cushman, John D. Carter, Douglas F. Coppi, Paul J. Gorman, 2000-12-01 The most useful definitive resource available on every aspect of construction claims including how to present the claims how to calculate and prove the amount of damages sustained and how to prove liability It even covers the clauses that should be in every construction contract You ll get comprehensive coverage of all the important issues delay claims differing site conditions claims claims for lost profit international claims and much more Includes a variety of winning strategies practice tips and helpful checklists to minimize damages and maximize collectability Contractors' Equipment Cost Guide Associated General Contractors of America, Dataquest (Firm), 1986 **Cost Reference Guide for Construction Equipment** Equipment Guide-Book Company, 1970 **Mine and Mill Equipment Cost Guide** Western Mine Engineering. Spokane, Wash., 2010 **Construction Equipment Cost Reference Guide** National Research and Appraisal Company, 1973 *US Army Corps of Engineers Construction Equipment Ownership and Operating Expense Schedule (Region I)* , Life Cycle Cost Guide for Equipment Analysis NAVAL WEAPONS ENGINEERING SUPPORT ACTIVITY WASHINGTON DC., 1977 The Life Cycle Cost Guide for Equipment Analysis updates and supercedes the Life Cycle Cost Guide for Government Furnished Equipment and its associated Customer Support Package This document differs extensively

from the previous guide in cost model structure in equation and cost factor description and in computer program structure. The major changes are:

- 1 The total Life Cycle Cost was divided into three major cost elements: Research, Development, and Production.
- 2 The entire Cost Breakdown structure was revised; new cost elements were added and new equations and cost factors were introduced.
- 3 Four types of yearly inflation rates: Research and Development, Procurement, Military Construction, and Operation and Maintenance, and yearly discount rates were included to calculate costs in terms of inflated or deflated dollars.
- 4 A new computer program has been developed for this Guide.
- 5 The new computer program enables the analyst to modify the standard Life Cycle Cost Model to his specific project needs without making any program changes. The format of the reports is automatically adjusted for all changes.

Capital and Operating Costs of Pollution Control Equipment Modules, 1973
Construction Equipment Cost Manual for Value Recovery Rates, Associated General Contractors of Minnesota. Equipment Cost Manual Committee, 1974
Capital and Operating Costs of Pollution Control Equipment Modules: Data manual, by Herbert G. Blecker and Thomas M. Nichols, 1973
Commercial News USA, 1985
Regulatory Program of the United States Government, United States. Office of Management and Budget, 1985

Reviewing **Equipment Cost Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Equipment Cost Guide**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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