

PROSIDING TEMU PROFESI TAHUNAN X PERHAPI 2001  
**CUTABILITY ANALYSIS OF DRAG PICK IN LABORATORY**  
**ANALISIS KETERPOTONGAN BATUAN OLEH DRAG PICK**  
**PADA SKALA LABORATORIUM**

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**ABSTRAK**

*Dalam upaya mempelajari kinerja mesin gali kontinu seperti Roadheader, Surface Miner, Tunnel Boring Machine dan Drum Shearer, analisis cuttability (keterpotongan) batuan oleh drag pick telah dilakukan dalam skala laboratorium. Peralatan uji keterpotongan telah dirancang dan dibuat di Laboratorium Geomekanika Departemen Teknik Pertambangan – ITB untuk maksud tersebut. Mengingat peralatan gali banyak menggunakan drag pick, maka tipe mata gali tersebut dipilih untuk pengujian. Sedangkan material yang diuji adalah beton dengan berbagai campuran, gipsium dan andesit. Analisis kinerja meliputi pengamatan terhadap interaksi antara karakteristik keterpotongan dengan sifat fisik, mekanik dan dinamik batuan. Hasil eksperimen menunjukkan banyak kesamaan dengan hasil penelitian-penelitian terdahulu. Oleh karena itu dapat dikatakan bahwa perancangan, pembuatan peralatan tersebut, pemilihan alat pengukur serta prosedur pengujian telah dapat digunakan untuk penelitian lanjutan dalam bidang keterpotongan batuan.*

**ABSTRACT**

*In learning performance of continuous excavator like Roadheader, Surface Miner, Tunnel Boring Machine and Drum Shearer, rock cuttability analysis using drag pick had been done in laboratory scale. Cuttability test apparatus had been designed and made in Geomechanics Laboratory Mining Engineering Department – ITB for the purposes. Because of many excavators use drag pick, the type of pick had been choosen for the test. Materials had been tested were concrete with vary compositions, gypsum and andesite. Performance analysis includes of observing interaction between cutting characteristic with physical, mechanical, and dynamical rock properties. Experimental result showed a lot of similarities with previous researches. Therefore, it can be said that the design of apparatus, and experimental procedures have been used for the next research in rock cuttability.*