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## Experimental study on dry separation of fine coal

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Adopting air dense medium fluidized bed, fine coal particles in the size range of 3-6 mm were separated in experimental study. The experimental results showed that most of the high density of fine coal were accumulation in the lower part of the bed, while low-density fine coal tend to gather in the upper bed. This increase was mainly due to plasmid degree in composition and fluidization conditions to achieve the minimum separation of particles, resulting in deterioration of separation efficiency. Currently the air dense medium fluidized bed dry coal preparation technology has been successfully achieved for 50~6 mm grain size sorting of coal, But it is still not clear for 6~0 mm fine coal. It is necessary to fine-grained level for dry separation of test.

### Biography

Bo Lv is studying for a PhD from China University of mining and technology. He is devoted to researching dry separation technology and application. He has published more than four papers in reputed journals in china.

Zhenfu Luo is a Professor, Doctoral tutor and Editor of the Journal of China University of Mining & Technology, mainly engaged in dry mineral processing theory and technology development, fluidized dry sorting technology and equipment research. He has published more than 70 papers in reputed journals.

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