

Blasting device for premixed abrasive slurry jet

Abstract

A blasting device for producing a premixed abrasive slurry jet. The device includes a cylinder, in which defines a hydraulic oil side and a slurry side separated from each other hermetically, and the hydraulic oil side and the slurry side have ports for oil or slurry entry in and out respectively; a hydraulic medium feeding system which is connected to the port of the cylinder for oil entry in and out through oil pipe; slurry feedway jet system which is connected to the port of the cylinder for slurry entry in and out through slurry pipe; the cylinder sets up a sealed bladder to separate the hydraulic oil side and the slurry side. Friction between bladder and body become very little, as the slurry is ejected from the nozzle by utilizing the transformation of the bladder. So service life of the blasting device becomes longer. Furthermore, if the bladder mangles due to wear for use a long time, the bladder can be renewed only. It is not necessary to renew the whole cylinder. So the cost of production cuts down.