Abstract
The wearing is a phenomenon of degradation of different materials by abrasion effects, impact, fatigue, erosion and corrosion among others. This phenomenon carries great lost economic by deterioration of machines elements and industrial equipment, also a highest quota in environmental impact. In order to resist the injurious effects generated by wearing, it arises the reconstruction and maintenance from materials by weld. A vertical mill ATOX 32,5 for limestone milling is had with a wild game of 6 plates of table, applications were made more of plates with coatings of weld with complex chromium carbides and carbides in the zones critics.

Keywords
Abrasion, Carbides, Wear, Friction, Coatings, Weld, Tribology.