

## FEED PLATE

**Part Name:** Feed Plate

**Interchangeability with OEM Part:** The Optimum Crush® Feed Plate is directly interchangeable with the OEM Feed Plate. There are variations of feed plate design so please contact Optimum Crush to see if your Feed Plate can be upgraded.

**Equipment:** XL900, XL1100, XL2000

**Optimum Crush® Optimized Design Part Number:** 500129 (XL900), 500348 (XL1100), 500094 (XL2000)

**Purpose:** Increase Life Expectancy

## Background

Several Cone Crusher owners of various size machines have been reporting that Feed Plates have been coming loose, falling off and going through the Cone Crusher, falling off and seizing the Cone Crusher and even falling off and projecting out of the Cone Crusher. These issues have been linked to two common causes. First the Feed Plate wears quickly and “rounds” over the edge thus exposing the head of the cap screw. Second, the as-cast surface in the bottom of the counterbore does not allow for solid cap screw connection. Bolt heads either break off or washers yield thus losing the pre-load in the cap screw and causing the joint to loosen and the nut to unthread. This leads to the nut unthreading completely or the bolt shearing.

## Optimized Design

To combat the wear issue, Optimum Crush® has added an extended lip around the top edge to create a “rock box” affect. The lip holds small rock on the top of the feed plate and acts as the wear barrier thus increasing the life of the Feed Plate and the bolt heads. The bolted connection has been improved by machining the bottom of the counterbore to create a flat surface for the bolt head. To further improve this connection it is recommended that a 3/8” thick custom flat washer be used rather than a lock washer or hardened washer.

**OEM Design**



**OEM Design**



**Raised Lip**

**Machined Counterbore**



**OPTIMUM CRUSH Design**