

case study

LAKOS Separators-In-Series Remove Seven Tons of Sand Per Week from Process Water

Steel Forging Mill in Chile

System:	Steel Forging Mill
Application:	Removing Sand From Process Water Cooling Tower
Solids:	Sand
Liquid:	Process Water at 230 m ³ /hr (1,013 US gpm)
Problem/Challenge:	Efficiently Removing Sand From Process Water To Minimize Maintenance
Solution:	Two LAKOS JPX-0450 Separators installed in series (“Super Separator”)

Problem: A steel forging mill in Chile had a problem with sand getting into their process water cooling tower, requiring the company to replace the cooling tower fill every four months. The sand originated from casting of grinding media balls.

Solution: The company installed two LAKOS JPX Separators in a series, upstream of the cooling tower (two SS-JPX-0450-B/FLG Separators). This configuration is often called a “Super Separator”. The Separators remove up to seven tons of sand per week, greatly reducing maintenance. Prior to the installation of the separator, the cooling tower fill was replaced three times per year. The cooling tower fill is now replaced only every eighteen months. The sand purged from the separators is also reused for casting grinding media balls.



LAKOS

1365 N. Clovis Avenue • Fresno, California 93727 USA
 Telephone: (559) 255-1601 • Fax: (559) 255-8093
 Toll-Free: (800) 344-7205 (USA, Canada & Mexico)
 www.lakos.com • E-mail: info@lakos.com

AB-223 (6/2010)