

IOWA ENGINEERED PROCESSES



Cascade Deburring and Cleaning Processes

513 17th Street SE

Independence, IA 50644

Phone: (319) 334-7274 Fax: (319) 334 6049

www.iepc.com sales@iepc.com

Iowa Engineered Processes Success Story: *Seong Shin Precision*

THE PROBLEM: **Seong Shin Precision Co, Ltd. (SSP)** is a South Korean manufacture of precision parts for the automobile industry. To survive in the highly competitive Korean automobile marketplace, it is imperative to consistently and economically produce high quality parts. On a monthly average, SSP manufactures 12,400 power steering pumps. SSP had been using a conventional shot blasting and hand deburring process for cleaning the pump housings. This process required four dedicated employees and resulted in a first time rejection rate of 40%. Numerous inspections and reworks were required to meet production quotas. Seong Shin Precision realized a change was needed in how parts are cleaned and deburred if they were to remain competitive, keep existing business and attract new business.

THE SOLUTION: **Iowa Engineered Processes' Cascade Cleaning and Deburring System** was incorporated into SSP's power steering pump production line and the results were immediate and profound. Utilizing robotic loading and unloading, project dedicated employees dropped from 4 to 1 and the time needed to clean and debur 12,400 parts fell from 592 hours to just 126 hours. One of the most impressive impacts was on the rejection rate. While the old process resulted in a 40% rejection rate, the Cascade System "*achieved a rejection rate of almost 0%.*" The Cascade System provides consistent, cost effective cleaning and deburring.

Success by the Numbers:

Seong Shin Precision C. Ltd.: S. Korea		
<i>Power Steering Pumps: 12,400 Monthly Production</i>		
	Shot Blast & Hand Debur	Cascade System
Rejection Rate	40%	<i>Nearly 0%</i>
Dedicated Workers	4	<i>1</i>
Deburring Quality	Inspection & rework required	<i>Good to go!</i>
Monthly Work Time	592 hours	<i>126 hours</i>
Available Daily work time	8 hours	<i>8 hours</i>
Effective labor rate	70%	<i>70%</i>
Monthly working days	25	<i>25</i>

Can you afford not looking at IEP's Cascade System? Free prototyping can answer your questions. Please contact us to begin the process. "*Providing solutions for your needs!*"

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