

SSMC won GOLD in WSH Innovation Award 2012

The 2012 Workplace Safety Health Innovation (WSHi) Winners for Manufacturing were announced at this year's WSH Innovation Awards Convention on 30 May 2012 at Spring Singapore. **This event is organized by Singapore Manufacturing Federation (SMa), Workplace Safety Health Council (WSHC) and Ministry of Manpower (MOM) to recognize organizations who demonstrated innovative solutions for improving safety and health standards at workplace. SSMC is proud to be the Gold Award Winner who was selected after judging a field of 27 entries from which 9 finalists were chosen from manufacturing companies among the 5 key industries (manufacturing, construction, shipping, process and chemical).**



Ms. Janice Kwok, Director of Singapore Manufacturer's Federation presents WSHi Gold Award to SSMC team



This trophy is awarded to our "Anti-Crusher Block" team, from SSMC Thin Film and Risk Management departments, who presented project that the judges believe is the overall "best of the best", and reflected the solution is truly a simple and effective innovation.

With a sustainable safety track record, the company has won numerous award in the past, Gold in 2011 and Silver in 2010. Mr.

Jagadish CV, CEO of SSMC commended the team's safety achievement in 2012 WSH Innovation Gold award, **"Congratulations to the team for a job well done! Winning the WSH Innovation Gold Award shows the respect we have attained, at national level, through process of "thinking safety always"! Safety in all aspects of our business is the number 1 Priority of SSMC. Keep up the good momentum; and innovate all the possible safety solutions in the company; and let us become a behavioral based safety team in our workplace."**

WSH Innovation Gold Award – Manufacturing Category

Anti-Crusher Block Der Protektor

The team members are:

- Project Leader : **Kenneth Teo (Thin Film)**
- Thin Film Team Members : **Woon Jun Xian, Loh Lok Kit, Timoteo, Goh Chung Hee**
- Risk Mgmt Team Members : **Crescent Tong, Alexander Amirtham**
- Sponsors : **Seng Chin Chye, Tan Boon Leng**

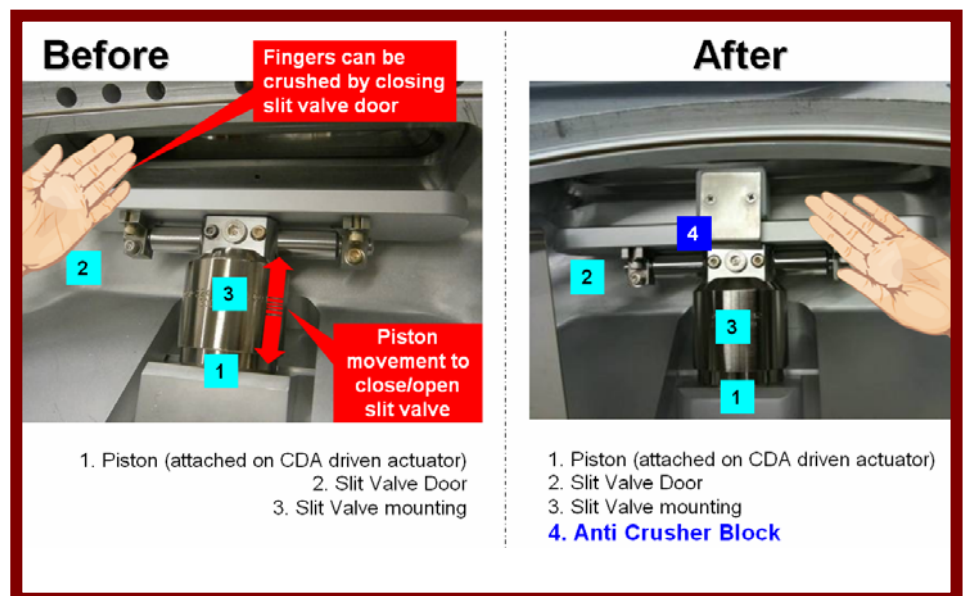
Safety Issue

In SSMC Fab clean room environment, at Thin Film area, Periodic maintenance (PM) is carried out on daily basis to upkeep performance of wafer processing tool and to ensure quality of wafer production. During the PM, O-Ring replacement in Plasma Vapour Deposition (PVD) tool is a frequent occurring procedure, in which likelihood of safety hazard and mechanical mis-operation is high. The potential risk can cause serious hand injury due to accidental closure of slit valve during maintenance. The slit valve door is operated using hydraulic system with pressure of 80 PSI, such pressure is more than enough to crush personnel's fingers while closing the slit valve door of the tool.

Solution

The team fabricated an anti-crusher block made of Teflon material to eliminate hand injuries due to accidental closure of PVD tool slit valve door during PM. Teflon block can act as a stopper; and the material is carefully selected to avoid particle generation due to scratches. The Anti-crusher block has been implemented

in all machines. After improvement, risk reduced from Medium to Low. SOP, OJT and PM documentations are all inline and updated with the new safety precautionary protocol.



Judges comments

The solution is truly a simple and effective innovation.

The project presentation is clear and precise, that reflects the team has carefully covered all safety aspects and thoroughly addressed the concerns with their solution.