



Sponsored and Organized by Unisteel Fastening Systems (Shanghai), the aim of the seminar is to address the potential cost saving and manufacturing superiority of

(1) Using Cold Forging to produce High Precision components without or minimizing secondary process.

(2) Using **Remform®**, **Taptite II®**, **Taptite 2000®**, **Trilobular®** Products for Fastening Metals and Plastics to replace conventional machine screws.

Topic Coverage:

1. Explain the principle of cold forging inclusive of material flow and work hardening, process advantage and superiority, product configurations and process limitation.
2. Address manufacturing considerations and design, such as upsetting, extrusion, shearing, material selection and tool configurations
3. Illustrate viable and cost effective applications and examples on conversion of machining parts to be produced by cold forging.
4. Explain basic fastening theory including installation/stripping torque, clamp force, screw relaxation and friction.
5. Show potential manufacturing and overall cost savings, illustrate application and give examples on the ease of product/ process re-engineering using **Remform®** and **Taptite 2000®** self-tapping screws

Seminar Details

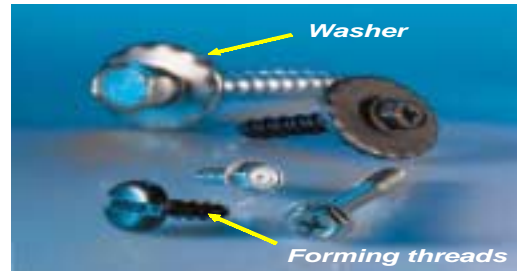
Date: 28th August 2003 (Thursday)
Time: 8:30 am to 5:00 pm
Venue: Shanghai
Dress Code: Smart Casual

Program

8:30 am Registration
9:00 am Welcome Speech -Mr. Steven Ong
9:15 am Cold Forging Principle – Dr Choy
10:30 am Coffee Break
10:45 am Cold Forging Technique – Dr Choy

12:00 pm Lunch Break
1:00 pm Basic on Plastic Material – Mr. Reck
1:45 pm Optimum Screw Design – Mr. Reck
 • Thread Profile Type
 • Optimum Boss Design, Hole Diameter, Penetration depth etc
 • Assembly, conditions, Installation and stripping torque

2:30 pm Coffee Break
2:45 pm Application Engineering – Mr. Reck (Principle, Re-engineering, Cost Saving)
3:45 pm Hands-on & Demonstration
4:30 pm Q&A Session
5:00 pm End



Unisteel's Trilobular™ (Taptite)®, REMFORM®, PT and Delta-PT thread offers many advantages over other tapping threads

Who should attend & Contact Person:

Manager and Engineer from departments of R&D, Product Design, Process Planning, Procurement etc.

This seminar is catered for invited guests only. Please confirm your attendance with Jolene Zhou or Anthony Pow through Email or Fax by 14 August 2003. Notification will be given to confirm your registration

Ms Jolene Zhou

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About the Speakers

Mr Bernhard Reck obtained his degree in Mechanical Engineering in 1986 and joined EJOT Fastening System as an Application Engineer. He developed many types of fasteners for EJOT which all became patents. In 1992, he became the General Manager of EJOT and his responsibility covers the global Application Engineering, Sales and Product development. In 1998, he founded Reck Engineering, a leader in research, engineering and consultation on fasteners in Europe.

Dr Choy Chee Mun started his career as a Cold Forging Engineer in 1988. He obtained his PhD in 1997 in metal forming in UK and since then, he worked in SIMTech as a Research Manager leading the Precision Metal Forming group. Dr. Choy has some 15 years of working & research experience in metal forming, particularly in the area of cold forging for precision components and fasteners, finite element analysis of plastic

deformation and process monitoring & control. He delivered some 30 research papers in metal forming and jointly own 5 patents. Dr Choy is now the Technical Director of Unisteel Technology Limited.

Cold Formed



Cold formed technology offers many advantages compared to conventional machining