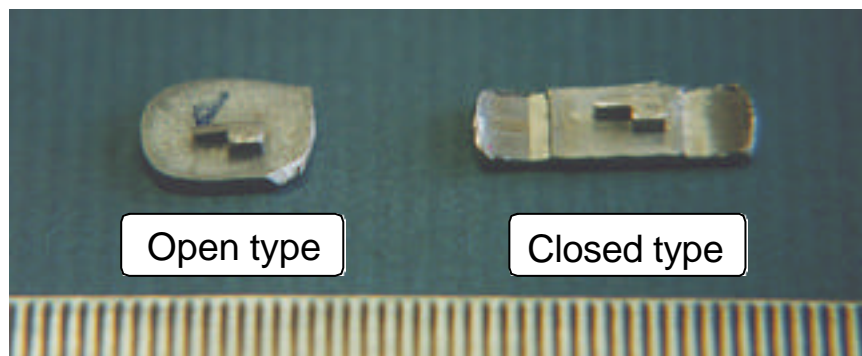
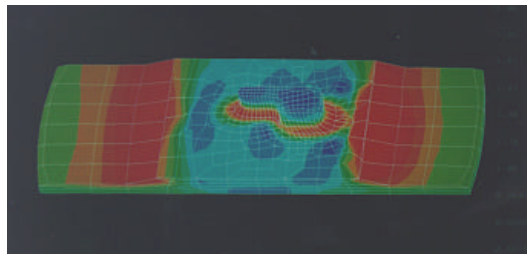
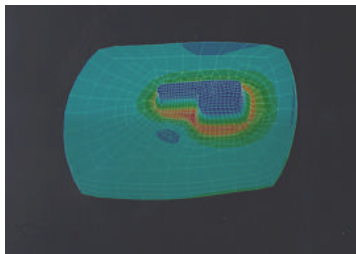


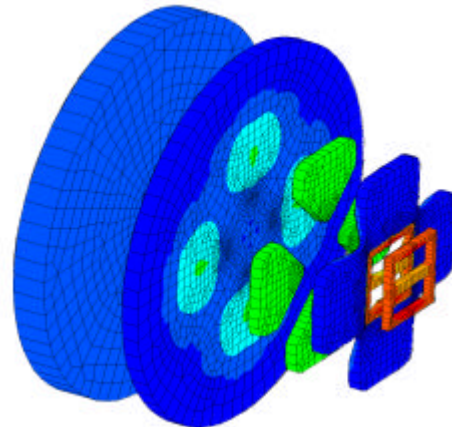
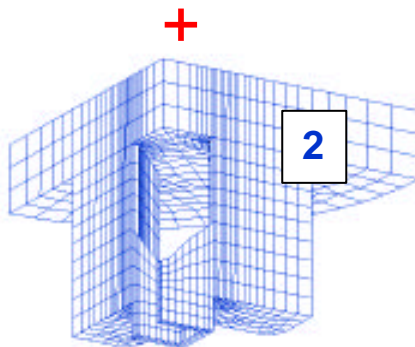
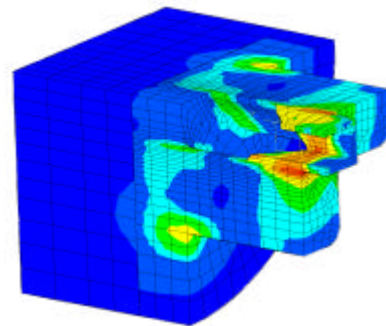
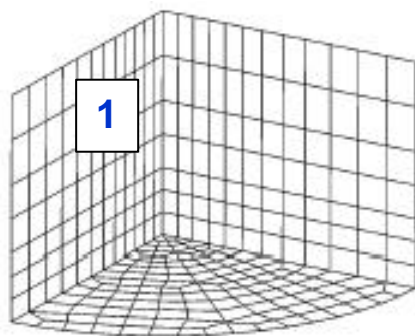
RESEARCH REPORT

● Research Title	Design and analysis for precision forging of electronics parts using progressive dies
● Research Field	CAE in Metal Forming (Ref. no: MF-01)
● Research Period	March 1995 ~ Sep. 1996
● Related Publications	K. Park, D. Y. Yang, and Y. S. Kang, " Precision forging design and analysis in electronics parts manufacturing ", <i>Proc. Instn. Mech. Engrs. Part B: J. Engng. Manufact.</i> Vol. 213, pp. 11 ~ 20 (1999).
● Summary	<ul style="list-style-type: none">▪ Precision forging using progressive dies▪ Open die forging vs. Semi-closed die forging▪ Three-dimensional finite element analysis for forging processes▪ Three-dimensional remeshing scheme



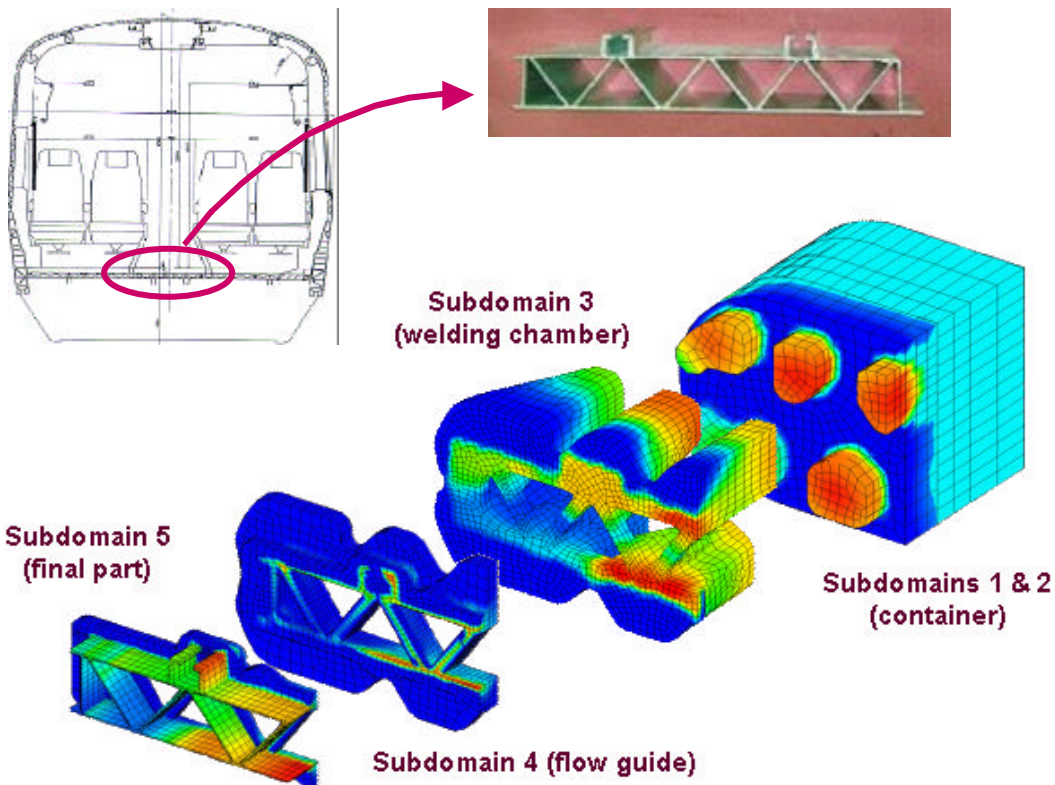
RESEARCH REPORT

● Research Title	3D analysis for hollow section extrusion of a triply-connected section using mismatching refinement with domain decomposition
● Research Field	CAE in Metal Forming (Ref. no: MF-02)
● Research Period	Dec. 1997 ~ Sep. 1998
● Related Publications	K. Park, D. Y. Yang, and Y. S. Kang, "3D finite element analysis for hollow section extrusion of a triply-connected section using mismatching refinement with domain decomposition", <i>Engng. Computations</i> , Vol. 17, No. 3, pp. 235 ~ 254 (2000).
● Summary	<ul style="list-style-type: none">▪ Hollow section extrusion of a triply-connected rectangular (田) section using a porthole die▪ Implementation of the mismatching refinement with domain decomposition scheme



RESEARCH REPORT

● Research Title	Design and analysis for hollow section extrusion for the underframe part of a railroad vehicle
● Research Field	CAE in Metal Forming (Ref. no: MF-03)
● Research Period	Sep. 1998 ~ Nov. 1999
● Related Publications	K. Park et al, "Design and analysis for hollow section extrusion for the underframe part of a railroad vehicle using mismatching refinement with domain decomposition", <i>Proc. Instn. Mech. Engrs. Part B: J. Engng. Manufact.</i> Vol. 215, No. 3, pp. 383 ~ 394 (2001)
● Summary	<ul style="list-style-type: none">▪ Hollow section extrusion for the underframe part of a railroad vehicle▪ Implementation of the mismatching refinement with domain decomposition scheme



RESEARCH REPORT

● Research Title	Finite element analysis for the lamination process of a precision motor core using progressive dies
● Research Field	CAE in Metal Forming (Ref. no: MF-04)
● Research Period	July 1999 ~ Feb. 2000
● Related Publications	K. Park and S. R. Choi, "Rigid-plastic finite element analysis for the lamination process of a precision motor core using progressive dies", <i>J. of Kor. Soc. Machine Tool Engrs.</i> , Vol. 10, No. 5, pp. 45 ~ 52 (2001).
● Summary	<ul style="list-style-type: none">▪ Finite element analysis for the embossing and the lamination process of a precision motor core▪ Estimation of bonding strength▪ Determination of optimal embossing stroke to increase bonding strength

