



Farm Equipment

The tractor and combine pictured are representative of a line of farm vehicles manufactured by Deere & Company, Moline, Illinois, which also produces the John Deere diesel engines that power the vehicles. Deere & Company is one of many users of computer programs supplied by NASA's Computer Software Management and Information Center (COSMIC)[®]. In the interest of national productivity, COSMIC makes available to industry already-developed computer programs which have secondary utility.

Deere & Company used a COSMIC program called FEATS—for Finite Element Analysis of Thermal Stress—in computer analysis of diesel engine pistons, connecting rods and rocker arms. The company reports that its use of FEATS afforded considerable savings and improved analytical accuracies, process efficiencies and product reliability. Deere & Company is also using COSMIC's NASTRAN[®] (NASA Structural Analysis) program in analyzing engine components.

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