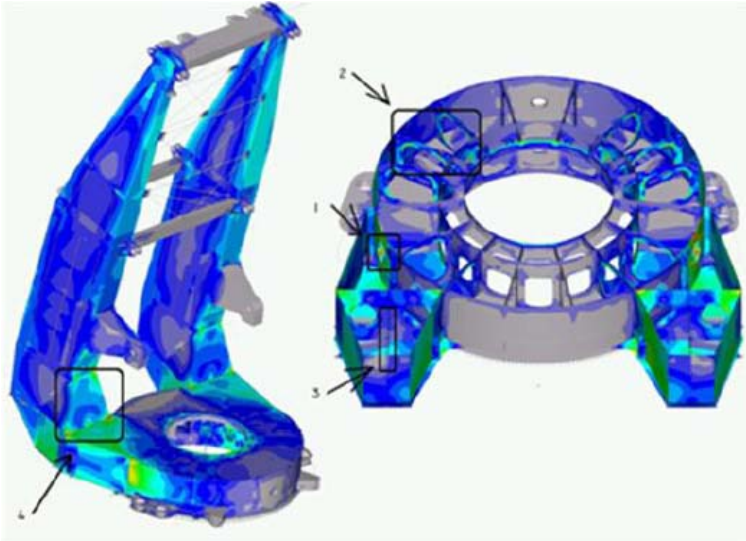
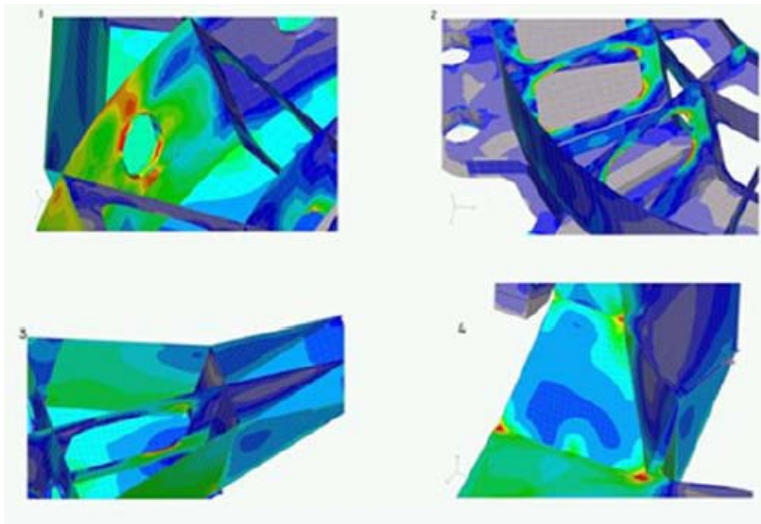


## Industrial Case Study (SKW Design Office, Poland – Opencast Mining Machines)



SKW Design Office ([www.skw.pl](http://www.skw.pl)), Poland, has implemented important projects in the opencast mining industry since 1991. The Company design potential is well-adapted for the implementation of the largest undertakings in the industry – the machines of the daily capacity of 200 thousand cubic meters. Design work is the core activity of SKW. Its potential enables the implementation of the largest ventures within the opencast mining machines and the equipment of depository sites. The last years' implementations of challenging mining designs were the results of the work done using the modern designing tools, which enabled the comprehensive durability analyses for the fatigue durability, stability, temporary durability with girder, surface and solid models, both linear and nonlinear. The SKW designers take advantage of 3-D CAD software and for FEA calculations NEi Nastran with FEMAP.



During several years SKW has solved a whole range of difficult problems, which required both practical experience and advanced durability analysis. Successfully implemented complex modernizations of basic machines are the best evidence. “Our knowledge, experience and extend usage of the high-tech top modern analytical tools entitle us to offer our services within the consultancy and support while solving sophisticated technical problems in the lignite industry” says Pawel Kanczewski one of three Board Directors of the SKW Company, “Our elaborations of technical expertises are characterized by the precision of the offered analyses and solutions for the diagnosed problems”.

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