# FUJITSU

Overview of Service / Solution
## FUJITSU Manufacturing Industry Solution FJKSWAD

Computer Aided Engineering Software (CAE)
Structural Analysis System for product designer using Finite Element Method (FEM)
FJKSWAD enables every product designer and engineer to carry out structural simulation on parts and assemblies with FEA (Finite Element Analysis) for improving and/or validating performance.
FJKSWAD reduces the need for costly prototypes and/or product design changes later on.

FJKSWAD

- What is FJKSWAD?
- Customer Benefits
- Why Fujitsu?
- Case Study

What is FJKSWAD?

FJKSWAD software simulates structural problems that are critical to evaluate product performance. FJKSWAD enables every designer to carry out structural simulation on parts and assemblies with finite element analysis (FEA). Especially, FJKSWAD is tightly in cooperation with FJICAD/SX and FJICAD/MX.

Strength (displacement, stress)
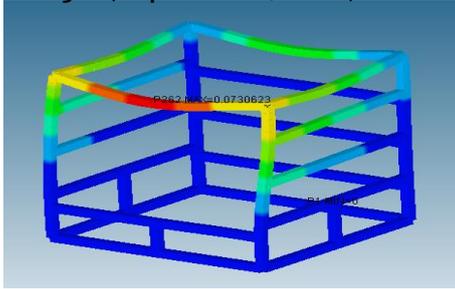
Resonance, Vibration
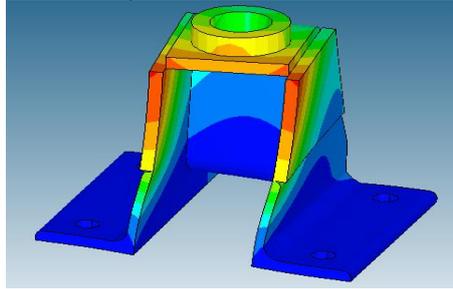
Thermal Conduction, Thermal Stress
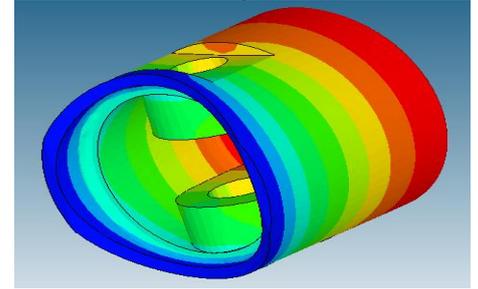
Customer Benefits

Raise the quality of your products, and reduce costs for real prototypes and testing.

- Easy way of QCD improvement in product design process
- Useful Analysis wizard for beginners
- Compatible with FJICAD/SX and FJICAD/MX
- Strong prepost for suitable mesh for beam / shell / solid / mass
- Fujitsu original development solver of best in class
- Assembly function(part composer, element composer)
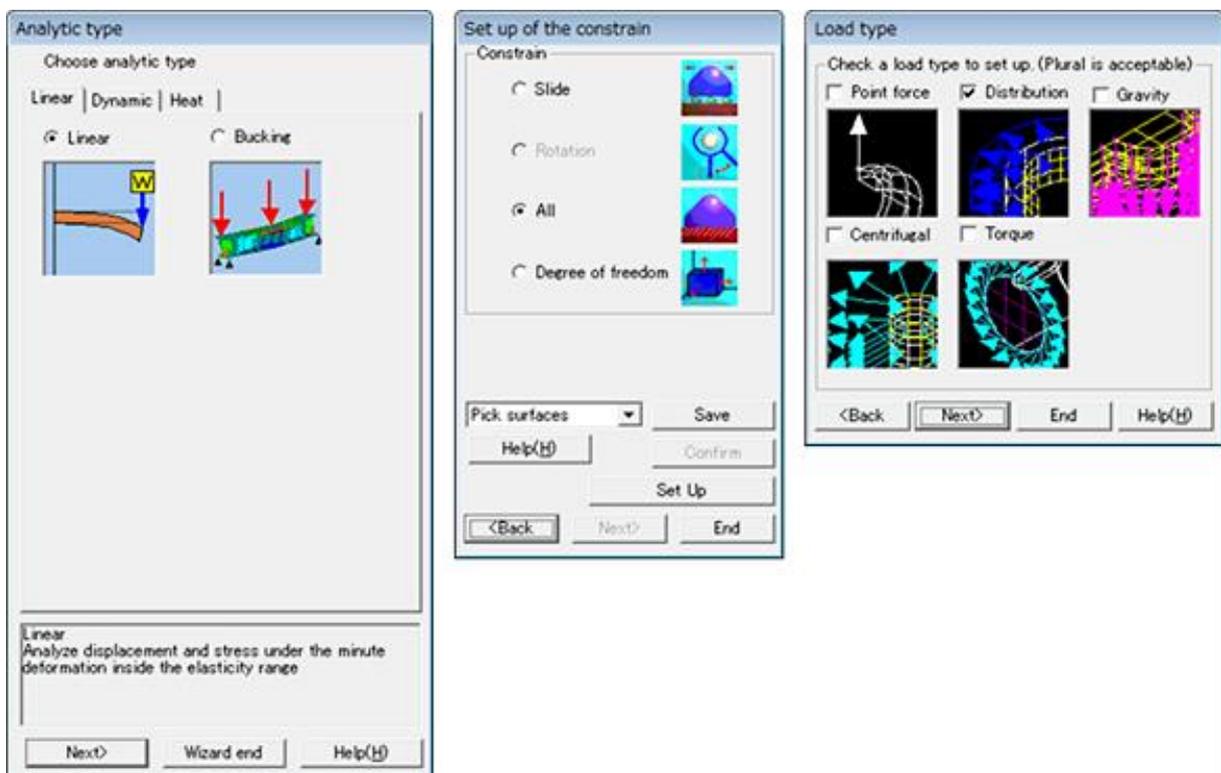
Why Fujitsu?

- Fujitsu is a manufacturer that designs and manufactures products on its own, including supercomputers, servers, telecommunications equipment, and mobile devices. Based on its experience in manufacturing, Fujitsu provides PLM package software solutions.

    · CAD: FJICAD/SX and FJICAD/MX
    · Digital Production Preparation: FJVPS
    · PDM: FJPLEMIA/Concurrent Design Manager
    · Virtual Product Line Simulator: FJGP4D
    · CAE / Simulator: FJKSWAD

- Based on 30 years of experience in the industry, Fujitsu provides package software that caters to customers' needs.
- By developing its own package software, Fujitsu maintains high product quality to meet customers' needs.
- Fujitsu is capable of providing customers with a full range of services, including hardware (e.g., PCs and servers) as well as networks, telecommunications equipment, and software.
- As an SI vendor, Fujitsu has helped many customers construct business operation systems for many years.
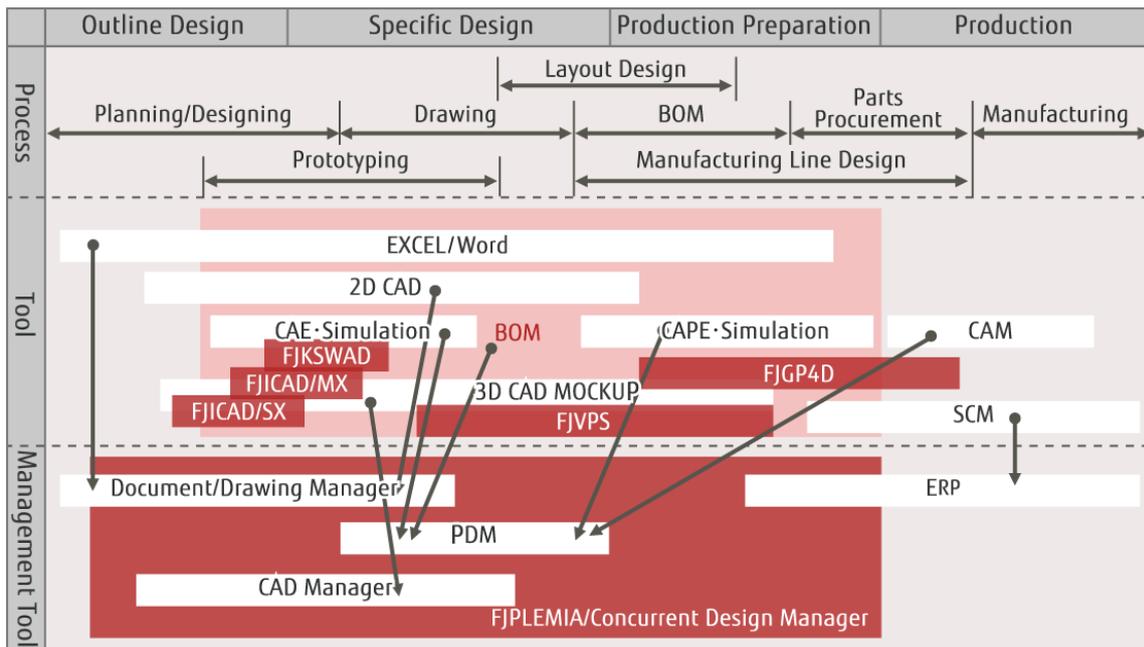
Case Study

	Line of business	Customer benefits
Company A	semiconductor /electronic component manufacturing equipment	FJKSWAD makes it possible for product designers to check stiffness and heat deformation in design process. Therefore, provides big benefit of period shortening and cost cutting.
Company B	automated transportation system	With FJICAD/SX cooperation, product designer can simulate shape change and check analysis results easily. This capability can be used to optimize size and weight.
Company C	manufacturer of machine tools and industrial robot	Honing a product specification under strength comparison in design process, they provide low-priced, high-quality products to their consumers.
Company D	manufacturer of industrial machinery	FJKSWAD helps product designer simulate and check the results by oneself, hence improves design quality and speed developments.

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Modules

FJKSWAD for FJICAD/SX Intro

FJKSWAD for FJICAD/SX Basic

FJKSWAD for FJICAD/SX Standard

FJKSWAD Intro (for FJICAD/MX)

FJKSWAD Basic (for FJICAD/MX)

FJKSWAD Standard (for FJICAD/MX)
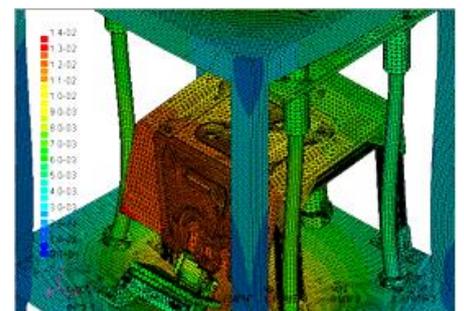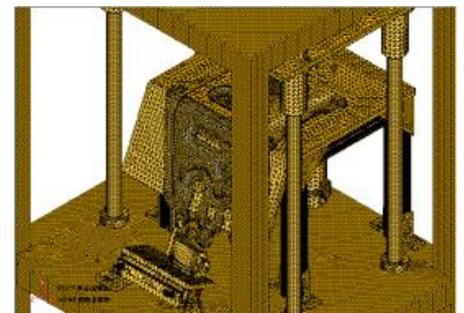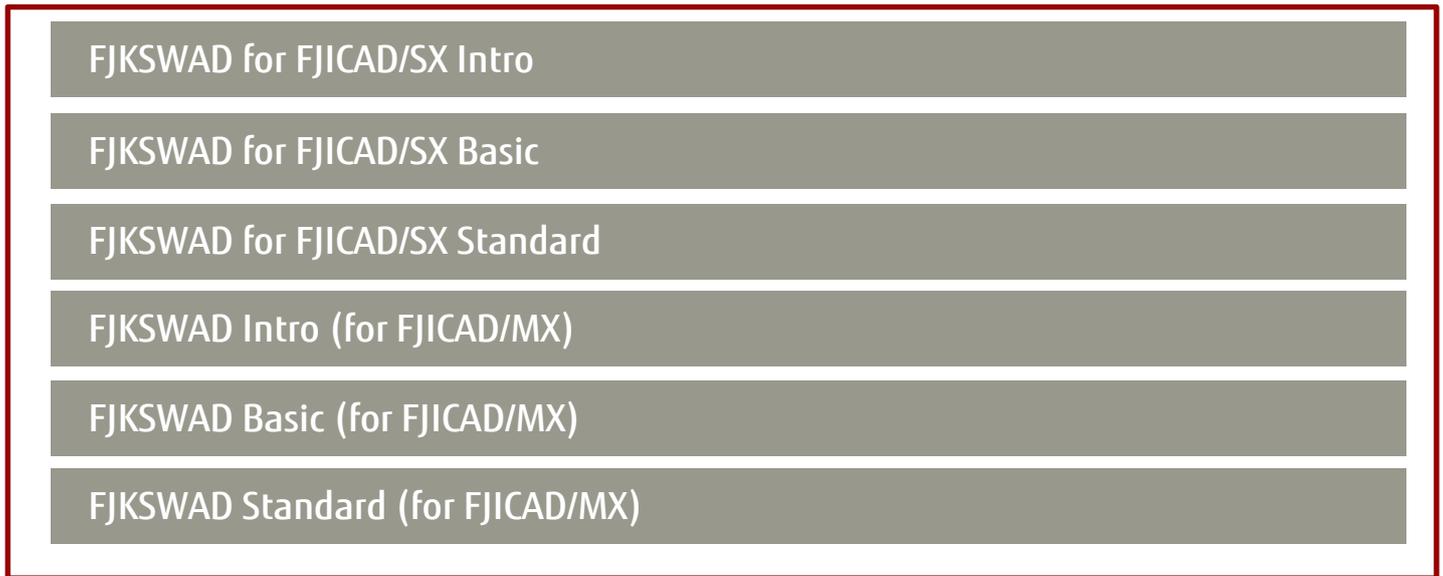
System Requirements

Operating system requirements and other information

- Operating System   : 32bit/64bit Microsoft Windows 7 Professional
- Memory   : at least 2GB or above*
- Hard disk   : 10GB free disk space required for calculation*
- Graphics card supporting OpenGL accelerator

* depending on the number of node and elements

OS and hardware requirements will be updated in the future.