

Module functions

	FJVPS / STANDARD (DMU+MFG)	FJVPS / DMU	FJVPS / Assembling Animation	FJVPS / Document interface	FJVPS / Viewer(Free)
Display 3D-model shape	◆	◆	◆		◆
Show MFG flow, MFG animation playback	◆		◆		
Measurement, Cross section	◆	◆	◆		◆
Save	◆	◆	◆		
Search	◆	◆	◆		◆
Add annotations	◆	◆			
Edit assembling flow	◆		◆		
Assembling/disassembling animation creation	◆		◆		
Detecting collisions in animation	◆		◆		
Output flow data	◆			◆	
Output snap shots	◆			◆	
Interference/clearance check	◆	◆			
Mechanism setting	◆	◆			
Human, Tools	◆	◆			
Design review	◆	◆			
Engineering change	◆	◆			
Man-hour estimation	◆				
Assemblability evaluation	◆				
Process split	◆				
Resource assignment	◆				
Touch panel operations	◆	◆	◆	◆	◆

Operation Environment

- ◆ Windows XP (SP3 and above)
- ◆ Windows Vista (SP2 and above)
- ◆ Windows 7
- ◆ CPU 1GHz and above (Recommended)
- ◆ Memory (RAM) 1GB and above (Recommended)
- ◆ Hard disk 1GB and above (Recommended)
- ◆ Graphic card memory 128MB and above(Recommended)
- ◆ Graphic card supporting OpenGL accelerator (Recommended)

CAD Data Interface

- |                            |                       |
|----------------------------|-----------------------|
| ◆ FJICAD SX                | ◆ FJICAD MX           |
| ◆ NX                       | ◆ NX I-deas           |
| ◆ PTC Creo Elements/Direct | ◆ PTC Creo Parametric |
| ◆ SolidWorks               | ◆ Solid Edge          |
| ◆ Inventor                 | ◆ Parasolid *         |
| ◆ STL                      | ◆ VRML 2.0            |

All Interfaces except Parasolid \* are offered free.

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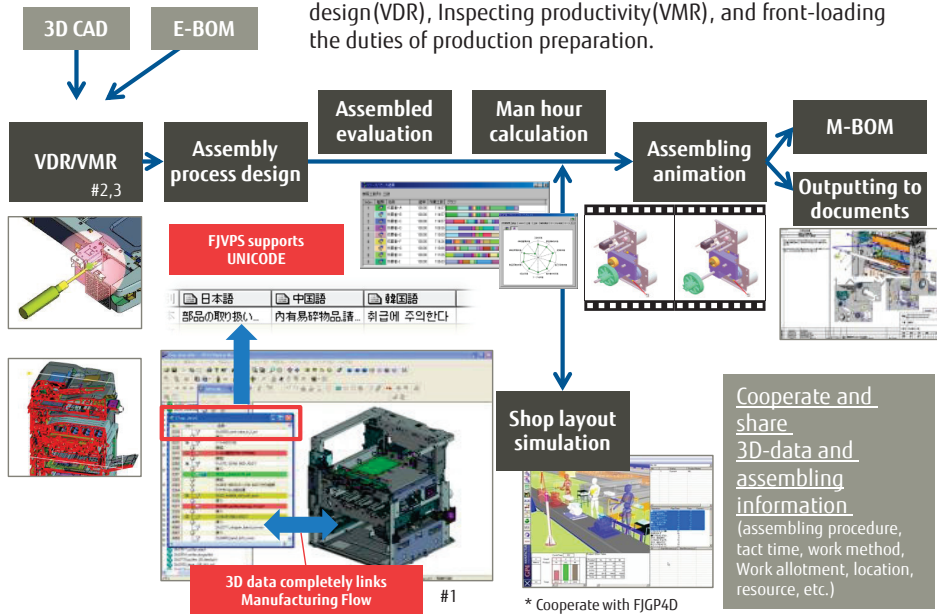
# Overview of Service / Solution FUJITSU Manufacturing Industry Solution FJVPS

Virtual Product Simulator  
 The global standards tool of production preparations



## What is FJVPS?

### Digital production preparation



#1: Data courtesy of: KYOCERA Document Solutions Inc.  
#2: Virtual Design Review #3: Virtual Manufacturing review

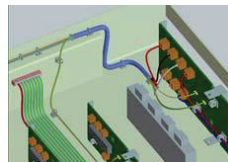
## Customer Benefits

FJVPS realizes, improvement of quality and production time of the early period of mass production as well as early improvement with design quality. The simple operation that even a CAD inexperienced person is usable.

### Effect case by FJVPS

#### Q: Quality improvement

- 50-80% of the design error was detected on a virtual prototype beforehand.
- The remaining defect item concerning assembly vanished before it approved.
- The drawing change rate after approval became 1/6.
- Defective assembly was able to be reduced to 1/5 in 1.5 years.
- The assembly trouble 80% reduction that was the initial goal was achieved in four years.



#### C: Productivity enhancement and cost reduction

- The start-up period of the prototype was able to be adjusted to 1/15.
- The development period was shortened to six months, and the development cost was reduced to 1/2.
- FJVPS harness option was used, and the design period was able to be moved up for one month.

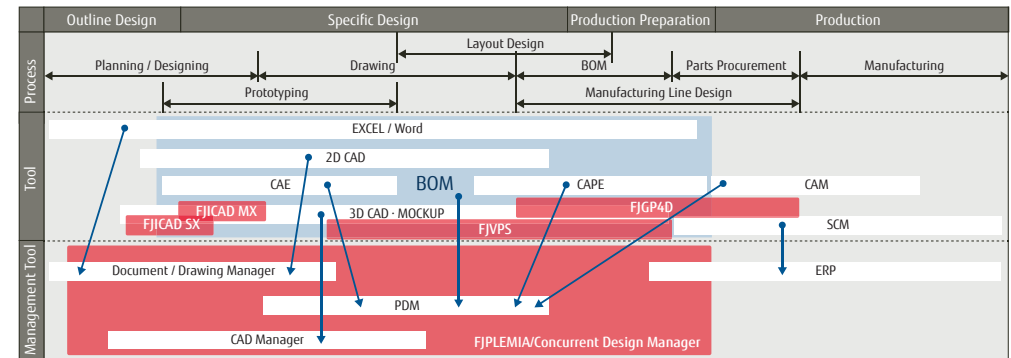


#### D: Shortening at lead time and period

- The man-hour of making the work procedure manual has been reduced by 30-40%.
- Communication between design and other business segment have been improved.
- Suggestions for improvement(ex. Mechanism operation, assembly, and check of serviceability) became possible without a real machine.
- The metal mold correction cost was reduced by half by the front-loading by FJVPS.

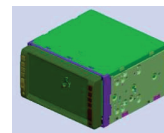
## Why Fujitsu?

- 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
  - MOCKUP: FJVPS
  - PDM: FJPLEMIA/Concurrent Design Manager
  - Virtual Product Line Simulator: FJGP4D
- 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.



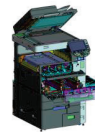
## Case Study

### Clarion (Car navigation)



- (1) VDR/VMR ..... Reduced a trial manufacture process in twice from 3 times.
- (2) Cooperation with the overseas design section ..... The inspection of the overseas design model is supported in remoteness by Japan.
- (3) making documents ..... Assembling procedure book, figure of QC process, FMEA sheet, etc.

### KONICA MINOLTA (Multifunction printer)



- (1) VDR/VMR ..... The large-scale model is inspected comfortably.
- (2) Making assembly procedure book ..... 50% of work is reduced by the semiautomatic reflection of the design change.
- (3) Utilization to M-BOM ..... 50% reduction of the information registration time to BOM.

### AMADA (Bending machine)



- (1) Front loading ..... Reduced the amount of reworking required for a particular design by 16% by carrying out inspection before trial manufacturing.
- (2) Man hour calculation ..... Calculate an assembling man-hour with the error from 3 to 7% in comparison with video analysis.
- (3) Work instructions ..... Order work utilizing an assembling animation in the trial manufacture spot.