



3D Solid  
Compression

# VISPublisher Suite

Lightweight, Interactive 3D eManual Creator  
for Technical Publishing



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VISPublisher Suite

VISTrans

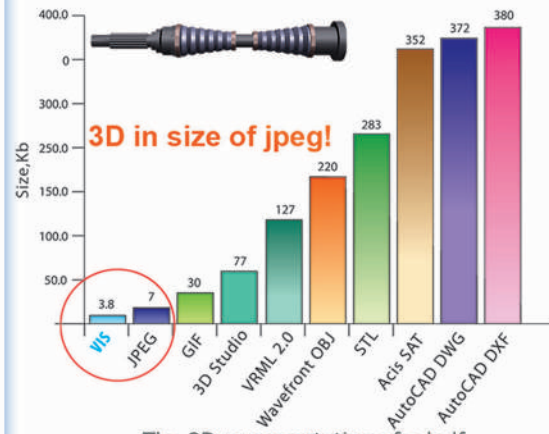
VISPublisher

VISPlayerPro

## Our Company - 3DSoC

**3D Solid Compression (P) Ltd (3DSoC)** provides interactive, lightweight 3D product communication and solutions for technical publishing. 3DSoC is a spin-out of Stanford University and the Indian Institute of Science, funded by IDG ventures. We are ranked as India's hottest start-ups of 2008 by Business Today.

We have developed a new patented data format for 3D model representation - "VIS" format, which is typically 100 times smaller than some of the CAD formats and is smaller than even the JPEG or GIF images.



The 3D representation of a half shaft occupies just 3.8 Kb in VIS as compared to 380 Kb (a 100 times reduction) in AutoCAD's DXF format. The benchmark results with other formats are as shown in the figure

## Our Vision - 3D for All

To be the defacto leader in Lightweight, Collaborative and Interactive 3D solutions for business and people worldwide enabling Universal Access.

## Our Product - VISPublisher Suite

The VISPublisher Suite of products (VISTrans, VISPublisher and VISPlayerPro) help companies develop the next generation - 3D Interactive eManuals by leveraging the 3D/CAD assets of a company. 3D eManuals are used extensively as training, product operation, repair and maintenance manuals.

3D eManuals can be created using 3D VIS models. VIS models being very light in file size can be animated easily with audio and text insertions. Existing CAD models can also be translated to VIS models.

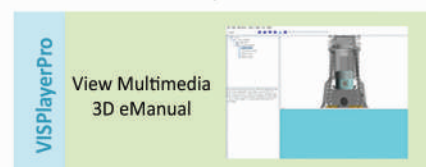
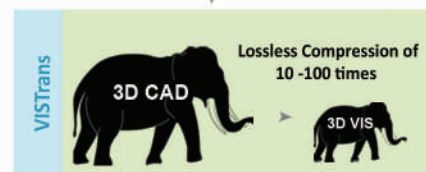
**VISTrans:** Translates existing 3D models ( STL/VRML) to lightweight VIS(Virtual Interactive Solid) models. VISTrans guarantees lossless translation.

**VISPublisher:** Develop lightweight, interactive 3D eManuals using VIS models. VIS Models imported into VISPublisher are enhanced by adding animation, voice, text and image/html file.

**VISPlayerPro:** Interactively view lightweight 3D eManuals (VIS Manuals) with audio support on any computer.



### Any 3D Model



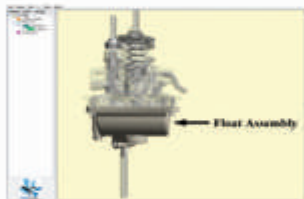
## Our Technology - Virtual Interactive Solid (VIS)

Our patented VIS Solution (Virtual Interactive Solid) is a concise 3D animated representation of a scientific or a technological concept with voice over support in multilingual languages.

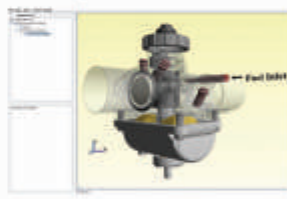
VIS allows dynamic interaction alongwith animation, audio and text insertions thereby paving the path for next generation multimedia 3D eManuals with very low file-sizes.

With lightweight, multimedia 3D eManuals we can virtually create, listen and view the component list, working process, assembly/disassembly process and walkthrough of the 3D model.

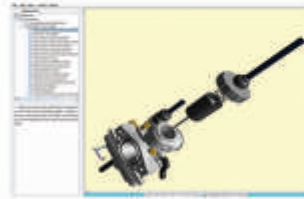
### Snapshots of Carburettor 3D eManual



Component List



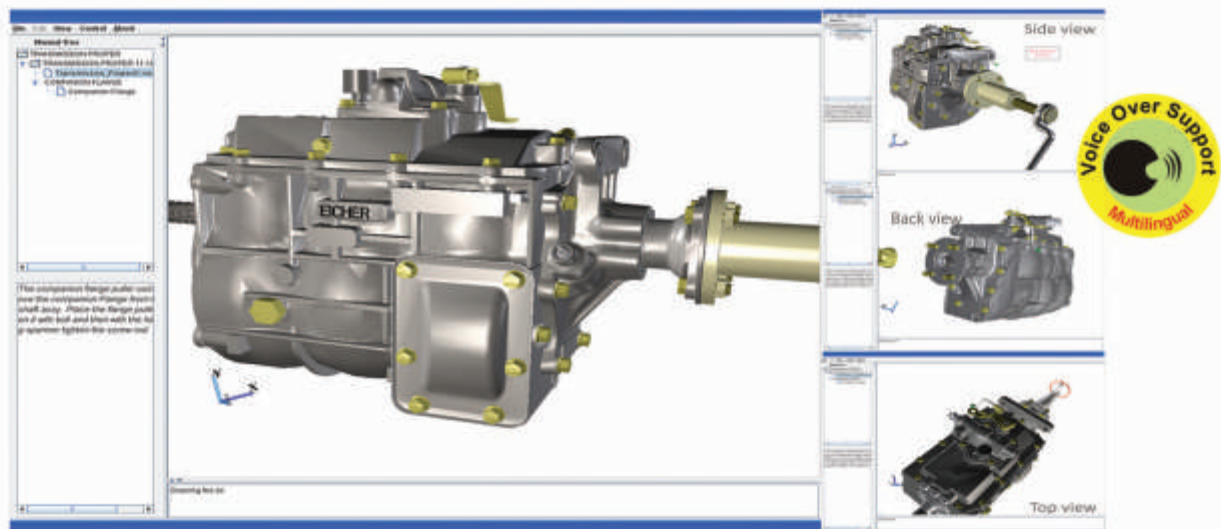
Working process



Assembly/Disassembly



Walk through

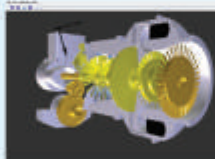


3D eManual Operation - Transmission Proper  
(with dynamic interaction, animation, text and background audio)

## Our Clientele - for different segments

We cater to a wide variety of clients ranging from different areas of aerospace, defense, automobiles, manufacturing, eLearning, engineering and much more...

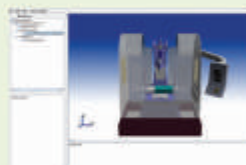
### Aerospace



Gas Turbine = 1.2 Mb

### Defence

### Manufacturing



File size = 1.68 Mb



### Automobiles



File size = 1.68 Mb



### Educational Institutes



Kaplan Turbine - 539 Kb





## Key Benefits

**Voice over support** - Provide voice instructions for dismantling, diagnostics in multiple languages

**Saves Time and Cost** - reuses the existing CAD models

**Best in compression** - VIS models 100 times smaller than a regular CAD file smaller than JPEG or GIF images

## Quick creation and Update of eManuals

**Search for parts** – easily locates parts in large assemblies based on part name and part number.

**Highly secure data** - Sophisticated encryption techniques are used to secure model data

**Ecofriendly eManuals** - eManuals replace printed manuals

Effective way of showcasing complex engineering products

**Quick access on web** - quick loading of manuals, regardless of bandwidth or connection speed.

**3D Animations with Dynamic Interaction** - during Assembly/disassembly

Users will be able to see, interact and feel the merchandise in its true three-dimensional form. All companies who use 2D images, video to advertise their products on CD/online will benefit by using VIS technology.

## Client Quotes

“ Generally 3D CAD models have very large data size, and normally the company limits access to these files to very few people. The main advantage with the product developed by 3DSoc is that the file size is very small. We intend to use this kind of technology to create a spare parts catalogue and service station manual that would be given to the dealer network. Currently these are in the printed format.

Since most of the company's models are created in 3D environment, it will be able to deploy this technology because it is interlinked with the main design component. ” -

Mr. C.Y.Deshpande, Bajaj Auto Limited

“We are very happy with your product and services” -

Mr. P.U. Gopi , Triveni Engineering and Industries Limited