



SCM ENGINEERING SERVICES

Technical Report on

MODELING AND DRAFTING OF COMPRESSOR ASSEMBLY MAGNETIC CLUTCH

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INTRODUCTION:

Automobile Design is one of the fastest growing sectors in the market, as a stream of transportation, it plays a vital role in today's developing market. Compressor is the heart of the car / automotive AC system. As a result of minute studies in compressor designing, Compressor plays a vital role in automotive vehicles. Different methods were adopted to design the compressor with customer requirements, To Design of such components **SCM Engineering Services** has undertaken the concept design of a compressor component for a leading **Indian client**.

OBJECTIVE:

To design and draft 3-d model using 2-d input drawings and iges files.

METHODOLOGY USED:

The requirements were to design and draft a 3D model in proe-2001 from the sample iges files and AutoCAD files.

The approximate dimensions were taken from the iges files which are not provided. The model was then built from the scratch with fully parametric to meet customer requirements and the technical details were incorporated from the given sketches. The final draft was made keeping in mind the manufacturing requirements and costs.

SOFTWARE USED:

For the present work pro-e 2001 software was used.

HARDWARE USED:

For the present work Intel(R) based Pentium-4 CPU 2.4 GH, 1 GB RAM machine was used.

RESULTS AND DISCUSSION:

The following figures show the complete design and drafting of COMPRESSOR ASSEMBLY
MAGNETIC CLUTCH

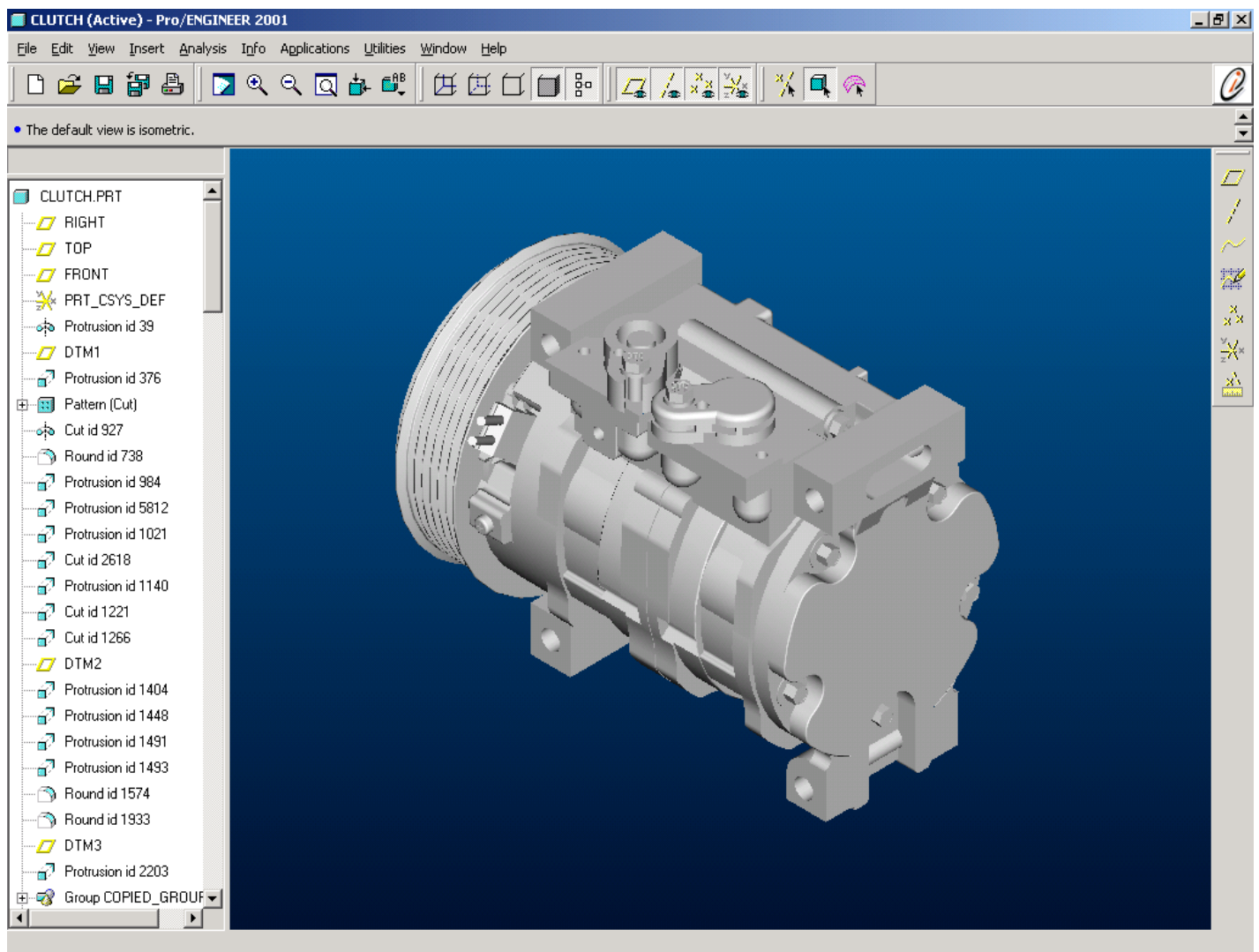


Fig.1 Isometric View Of Compressor Assembly Magnetic Clutch

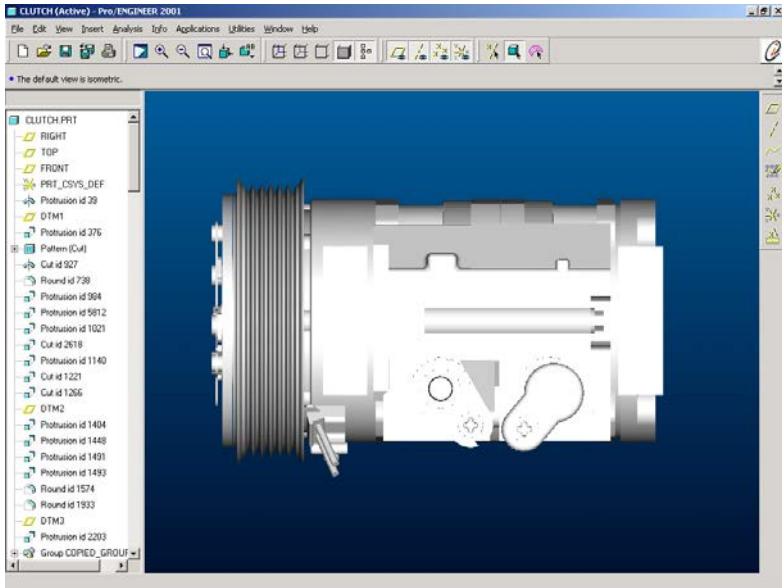


Fig.2 (a) Top View

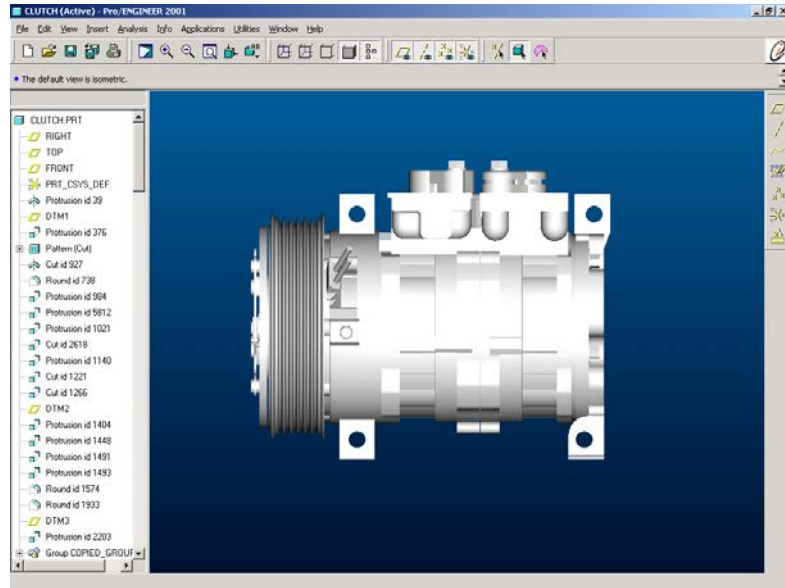


Fig.2 (b) Front View

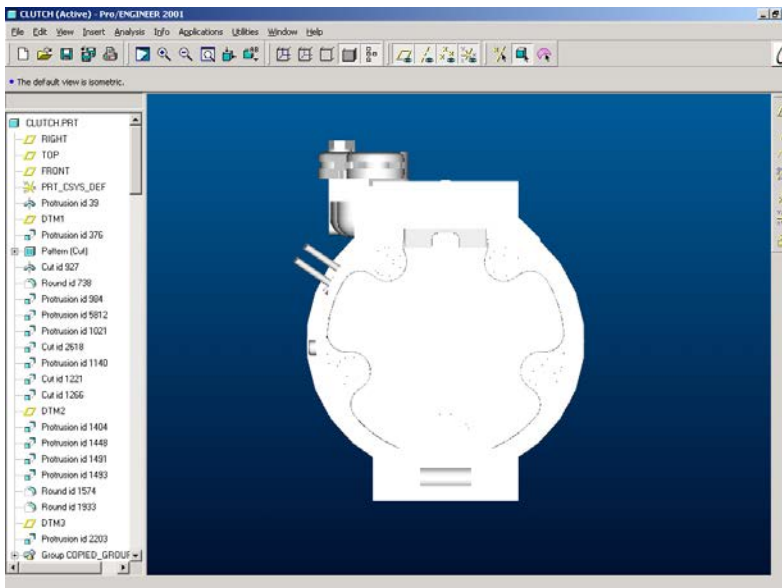


Fig.2 (c) Side View

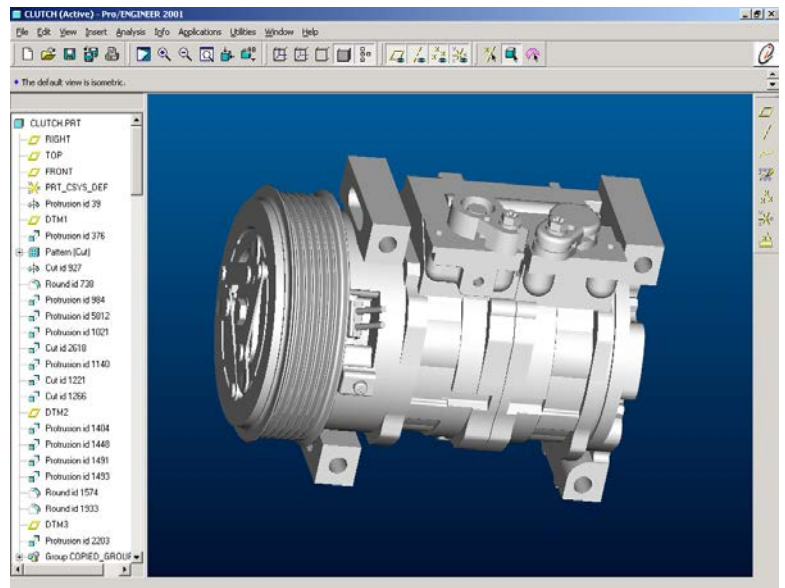


Fig.2 (d) Isometric View

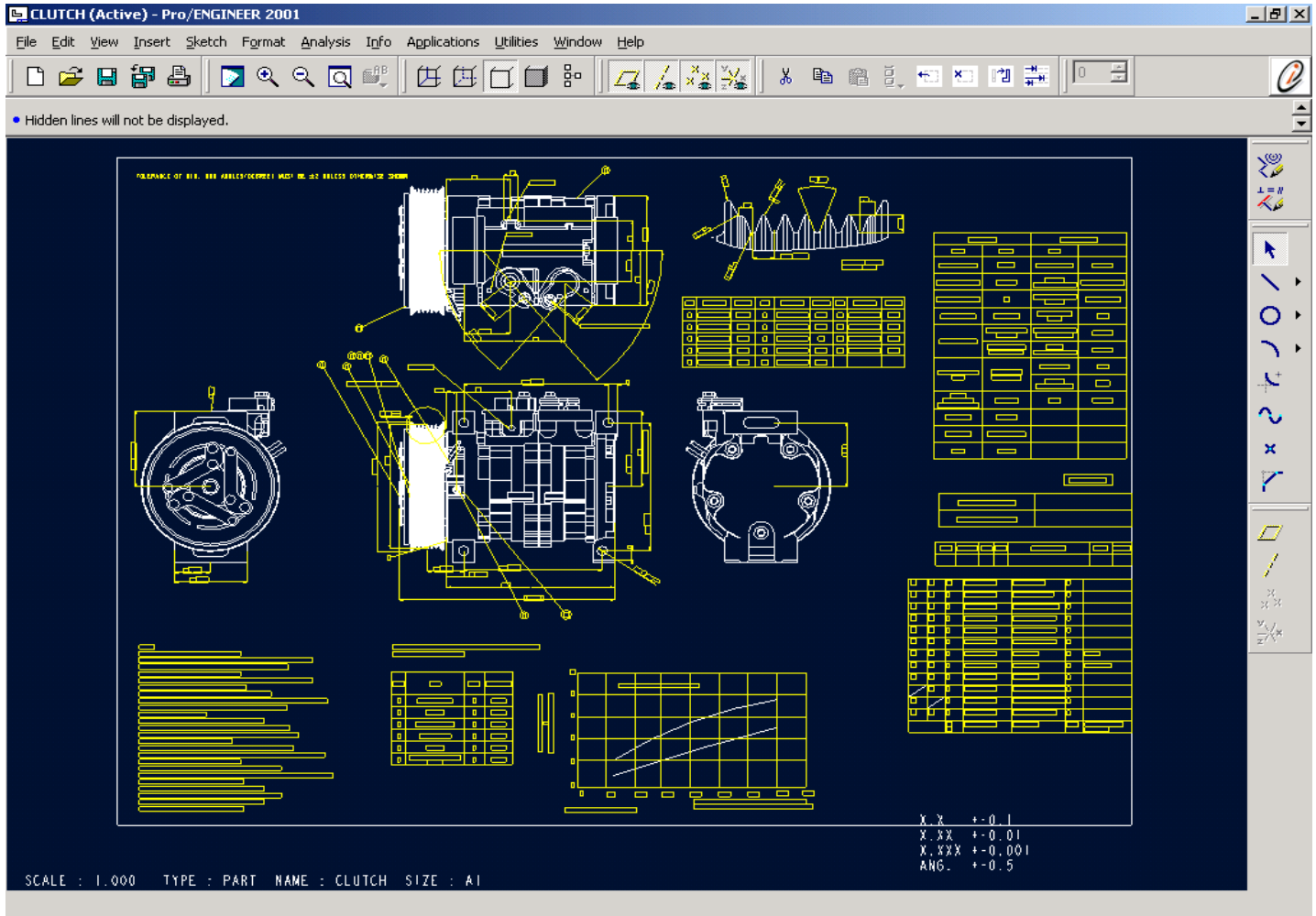


Fig.3 2-D Drawing Of Compressor Assembly Magnetic Clutch

CONCLUSION:

The final 3-D Model and 2-D Drawings are done in 50 Man working hours.