



HYTEC
SOUTH AFRICA
(RF) (Pty) Ltd

Reg. No.: 1970/013636/07

rexroth
A Bosch Company

A Bosch Rexroth Company

**HYDRAULICS &
AUTOMATION**

4 August 2023

With high demand and increased requirements, we need to use Inventor to its full potential.

Challenge

As a high-volume hydraulic fabrication entity, optimization of time and quality is of the essence. We use Inventor already thus, we know that the package work, but we need it to work smarter. As the demand for high detail, high quality fabrication was lengthy and time-consuming endeavour.

Goals

1. We must find a faster and better way to build steel base frames, other than extruding sketches to suit our requirements.
2. There must be easier ways to route piping.
3. With no Hydraulic tubing libraries available, we need to build our own.

Solution

To build our steel base frames in a fraction of the time it normally takes, the frame generator was an option, but the only steel sizes that originally come with Inventor, are either European or American. That would not work for us in South Africa. We heard that there is a library available with the SANS steel sections for us to use the Frame Generator to build our steel frames with. As Modena is already assisting us with our yearly Autodesk licensing, we approached them to assist us with the abovementioned issues.

While we enquired about the SANS Steel Sections Library, we thought that it would be first price if we could get a Hydraulic Tubing Library as well. Unfortunately, after an intensive search by Gerrie Mocke, we were told that such a Library does not exist.

He then offered MODENA ONESOLVE's services in the form of onsite Advanced Workshops to teach us the finer detail of setting up our own Library.

We opted for the following workshops:



Branches in: Cape Town, Durban, Johannesburg, Klerksdorp, Kuruman, Lephalale, Mogalakwena, Newcastle, Polokwane, Port Elizabeth, Pretoria, Richards Bay, Rustenburg, Saldanha Bay, Secunda, Steelpoort, Vanderbijlpark, Witbank.
Operations in: Botswana, Egypt, Ghana, Morocco, Mozambique, Namibia

Directors: C.E. Riley, B. Loesche*, M.J. Harrison, M.S. Dondolo (Chairman), J. Sookdeo, N.V. Mfono.
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- Inventor Tube and Pipe
- Inventor Content Centre and Libraries
- Inventor Frame Generator

Business Outcome

Between Gerrie and Arthur, we now can:

- Create pipes and export them to .xml files.
- Publish new parts into the Content Centre.
- Do Content Centre editing.
- Set Parameters of new parts.
- Use the Frame Generator with all its functions.

Conclusion

Although it is early days yet, we in the Hytec Drawing Office, apart from modelling new Base Frames in a fraction of the time we used to do it in, will be doing hydraulic tubing in a flash once our Library is up and running as well.

Thank you, MODENA ONESOLVE, for your assistance.

Kind Regards,

The HYTEC Drawing Office Team.



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