



BORÅS MINIATYRÅNGLOKSSÄLLSKAP

Michiel van Gremberghe and George van Rooijen from the Netherlands

Let me first introduce myself:

My name is **Michiel van Gremberghe** and I have a precision engineering training as a back ground. Since 2003 I have a company called Studio ID and is located in Breda.

Within my company I specialized in 3D milling, 3D scanning and making prototypes and also molds. The basis of everything is therefore 3D computer CAD models and I convert these to touchable products. The use of new techniques and possibilities always have my attention and I like to apply that in my projects.

In 2014 I meet George van Rooijen in Schackendorf in Germany during a breakfast. After talking about locomotives, George said he did not have much to do in the winter because of the cold in his workshop. He used the winter to draw locomotives in AutoCAD. When I asked where he lived he appeared to live in Oosterhout, which is next to Breda.

He also had a restoration project (the restoration of a B-Loco Nr. 15 of his father), which had a leaking boiler.

On hearing this, I suggested that he could do his restoration project in my company and that by me the central heating is on in the winter.

So it happened, the B-Loc came to Breda and George started with his restoration project.

Soon the need came in 2014, to tackle things different but the skills in the CAD field of George were still 2D. From that point we are together every week an evening making 3D modules with a contemporary 3D CAD package. We needed a subject and as George had something that we could use, he was already working out a **NS 4700** in Acad. The purpose of the CAD project is so detailed and realistic to modulate a 3D model to the original. After a few years the end of the rebuilding of the B-Loco was in sight and we decided together to make our ambitious NS 4700 project in reality. We started on December 8, 2017.

The goal is to finish this beautiful project in 3 years and to use new techniques such as 3D printing and 3D milling.

Finally, I will also introduce myself:

My name is **George van Rooijen** and my profession was draughtsman – constructor in steel construction. After my school time I spent my spare time on steam locomotive building. Now that I am retired I spend my time on it daily.

In the period 1993–2013 I built my NS 4014 which is based on the Swedish H3s.

The Swedish origin of the NS 4014 was the reason to seek contacts in Sweden and I visited BMÅS in 2006 for the first time.

Since that time I have been visiting regularly and have become a member of the society.

From 2014 I spend my time on the hobby at Michiel in his company.

Michiel and George (both members of BMÅS)