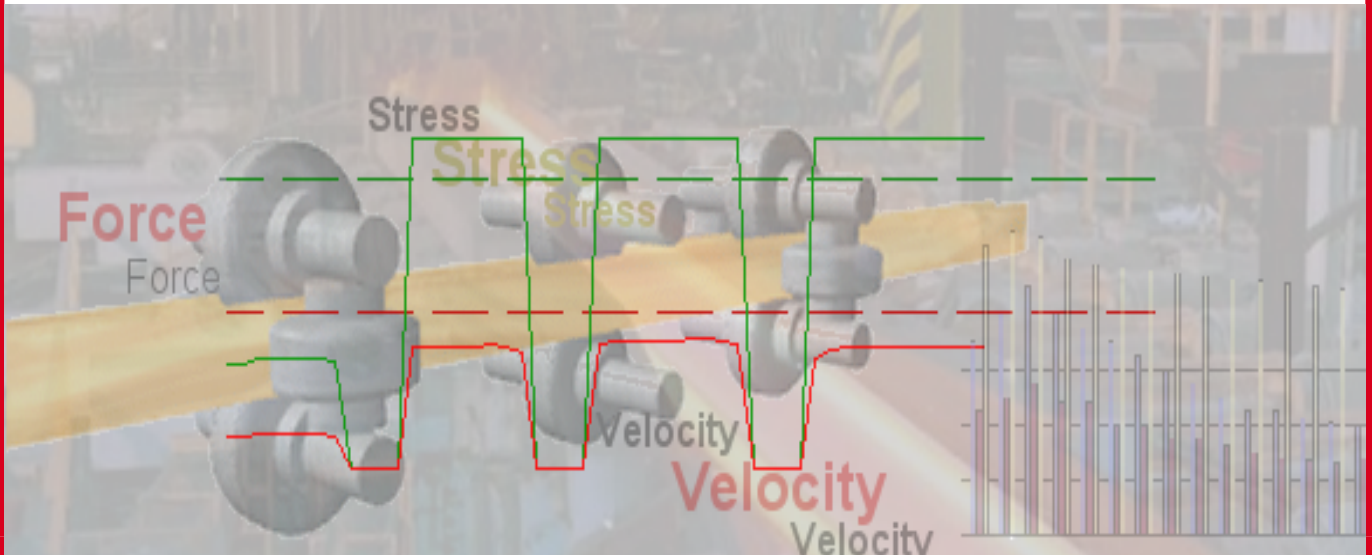


Corus e-Learning

Case study: Simulation



The Challenge

Many manufacturing processes are now automated and it is difficult for operators to gain experience of non-optimum plant operations. Effective training is required that does not impinge on work load or productivity, but reduces expensive errors. In this particular case, it was necessary to appreciate the effects of changing the roll pass schedule without being able to experiment on plant.

The Solution

A graphical simulation helped the rolling team to understand the consequences of changing the number of passes through the mill when rolling a section. The learners were able to see how the number of passes affects the 'percentage draft', the rolling forces, the time taken to roll and the temperature. The simulation used accurate data from a computer model of the mill and, by using an interface based on the operator's control panel, the simulation gave a realistic experience without damaging the plant or wasting materials.