

Customer Case Study

Time savings throughout the complete production process.



Better quality cuts, easy traceability and extensive CAD integration; it all contributes to shorter production times and thus higher productivity



CUSTOMER

Nurol Gulf W.L.L.
Qatar

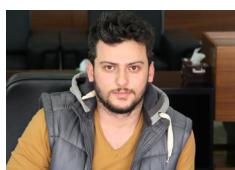
SOLUTION

SPC 600 Pipe Profiling Machine

INTERVIEWEES



Adem Aladag
Technical Office Chief Engineer



Mehmet Karabulut
Pre-Production Engineer

To keep up with the more stringent requirements from customers, most steel construction companies are looking for ways to do more, with better quality, in shorter time frames.

Finding qualified personnel is also becoming more difficult. The result is that companies orientate themselves towards the automation of their production process.

Qatar-based company Nurol Gulf has found the solution to this problem by investing in HGG SPC 600 pipe profiling machines.

Nurol Gulf operates in a region and industry that has been booming in the last years. Billions of dollars have been invested in the development of a high quality infrastructure and state-of-the-art sports stadiums for e.g. the Handball World Cup in 2015 and the FIFA World Cup in 2022.

Nurol Gulf has been using HGG machines from the start. Recommended by its Turkish sister company Nurol Holding, who have been using an SPC 600 since 1999, a new version of this machine was bought in 2006. Another machine followed in 2013.

Having such advanced machines provides Nurol with huge time savings from design to finished project and thus shorter production times. This resulted in several landmark projects, such as the Lusail Multi-Purpose Hall and the Sidra Medical & Research Centre.

"We were looking for a new machine with higher accuracy and production speed. Since we already knew the great quality of HGG machines and HGG's superb mentality towards service, it was an easy decision to buy an HGG machine once again."

explains Mehmet Karabulut, Pre-Production Engineer at Nurol Gulf.



"We had so much pressure from our clients to finish our projects on time and HGG was the company that saved our lives"

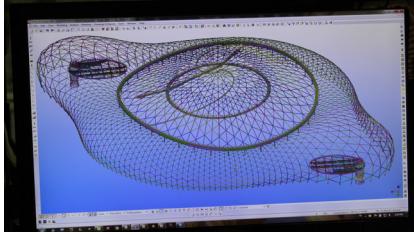
Adem Aladag - Technical Office Chief Engineer

SPC 600
Pipe Profiling Machine

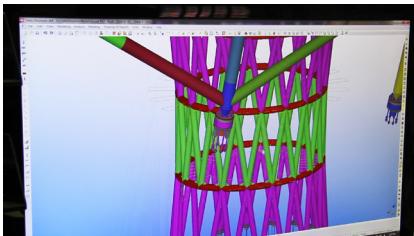
Customer Case Study



Up to 40 tons of steel per day is being processed with the SPC 600.



Tekla drawing of Lusail Multi-Purpose Hall.



Close up of a part for the Lusail Multi-Purpose Hall.



Cutting with plasma means high speed without compromising on quality.



Welding of pipes became easier and faster.

Doubled production capacity

The SPC 600 pipe profiling machine contributes to Nurol Gulf's production improvement in many ways. One of the factors is the ability of plasma cutting on the machine. This plasma option provides Nurol Gulf with higher cutting speeds without compromising on accuracy.

"Before we bought the new pipe profiling machine, we were only able to cut 10-20 tons of steel per day. But, right now, we are able to cut over 40 tons of pipes a day"

says Mr. Aladag, while Mr Karabulut continues:

"Sometimes the fabrication guys cannot keep up with our speed."

The high cutting accuracy coming from the machine is effecting the production process as well. Before, cut parts had to be ground, preparing them for further processing. By using the SPC 600 pipe profiling machine, grinding of cut profiles has been practically eliminated. Nurol Gulf was processing 20 tons and now, by using the HGG machine, Nurol Gulf processes up to 40 tons of steel a day.

Easy traceability

Another factor that saw a huge improvement is the traceability of cut pipes. The machine is equipped with a punch marker that enables Nurol Gulf to mark traceability and fitting data. These markings enable fitters and welders to see which pipe should be welded to which location. Fitters and welders are no longer wasting their time looking for the right material.

Extensive CAD integration

HGG's cooperation with Tekla provides Nurol Gulf the opportunity to save time during the design stage as well.

Both cutting and marking data can be transferred directly to the machine without the need of further programming.

"We can export cutting and marking data from Tekla directly into the machine to cut and mark each pipe. This way, we make sure that pipes are easily traceable and the fitters know exactly which pipe should be fitted at which location in the construction."

according to Adem Aladag.

No limitations

Having the SPC 600 enables Nurol Gulf to cut any imaginable shape resulting in a major design advantage for customers. Following the market trend of more complicated and complex design, Nurol now has the ability to cut each imaginable shape offering them a big competitive advantage.

"In the design of new projects, you do not want to be restricted by technical limits. When you eliminate these limitations, which the SPC 600 does, you will have much more complicated and extraordinary designs. At this point, HGG is definitely better than others."

a smiling Adem Aladag explains, while his colleague Mehmet Karabulut adds:

"We requested this SPC 600 and expected limited angles for the beveling and for the cutting. instead, HGG gave us the best machine possible with a cutting angle from -70 to +70 degrees."

In conclusion, Nurol Gulf is really happy with HGG's machines and is confident to successfully cope with any future challenge.



"Sometimes the fabrication guys cannot keep up with our speed."

Mehmet Karabulut - Pre-Production Engineer