

## **New Silent Dynaset Hydraulic Generators Are Producing Electricity at Tramway Construction Site**

Entrepreneurs Mertsu Laukkanen and Janne Leppänen are working with their excavators at tramway construction site in Tampere, Finland. There are a lot of cables and pipes under the streets, therefore working requires precision. Electricity is needed for tools such as angle grinders, drills, submersible pumps etc. They both have new excavators which are equipped with Dynaset HG 6,5kVA Hydraulic Generators. The hydraulic generators guarantee availability of electricity at all times. The new hydraulic generator model has integrated silent hydraulic motor. Despite the compact size, the generator output is 5,2kW which is sufficient for all the needs at the worksite.

### **Dynaset Hydraulic Generator Saves Time**

Mertsu Laukkanen is rebuilding the sewers and is doing the ground work for the tramway. His new Volvo ECR235EL is equipped with new DYNASET HG Hydraulic Generator. Laukkanen had an older model of Dynaset hydraulic generator on his older excavator and backhoe loader. He is impressed with the new silent model.

“I had an old model of Dynaset generator on my other excavator and before that on a backhoe loader for over five years and the generator worked just great. However this new one is so quiet that you cannot hear it while you work,” Laukkanen says.

According to Laukkanen, the hydraulic generator also has other advantages compared to traditional gensets. One of the advantages is the time savings. The hydraulic generator has proved its worth.

“Too often a traditional genset is miles away and you have to spend time to get it. At times it runs out of fuel or it doesn’t start. On the other hand, a hydraulic generator is always aboard and ready to use when you need it,” he continues.

Dynaset 6,5kVA Hydraulic Generator has plenty of power. It provides electricity for various tools from large angle grinders to welders and also lights, concrete mixers and submersible pumps.

“A hydraulic generator’s power level is sufficient for plastic welding,” Laukkanen and Dynaset Area Sales Manager Jari Vuoremaa think together.

### **Hydraulic Generator Upgrade**

Another entrepreneur also heard about the new silent models of Dynaset Hydraulic Generator. Janne Leppänen saw one of them on his friend’s excavator. He was so convinced about the low volume level of the new model that he upgraded his own older Dynaset Hydraulic Generator into a silent version.

“I updated the old Dynaset Hydraulic Generator into a silent model by changing its hydraulic motor. It is now really quiet. There is a tiny echo since it is installed in the tool box but I would say the generator's volume is now only 20% of the former level,” Leppänen says.

Leppänen delivers electricity also to other users at the tramway construction site. Quite often electricity is needed for angle grinders which are used for cutting old water pipes located under the road. Occasionally they use it for drills and welders.

“Angle grinders require electricity quite often. Battery-powered angle grinders don’t have enough power to cut ferrous piping and therefore the hydraulic generator comes in handy,” says Leppänen.

Janne Leppänen acquired Liebherr 914 Compact wheel excavator six months ago and he installed the upgraded Dynaset Hydraulic Generator to its tool box. Thanks to the compact size of the generator, some space was saved for an electric cable reel.

### **Dynaset Product Development Brought Silent Models to the Generator Market**

According to customer feedback, the silent hydraulic generators have improved the working conditions of excavator operators. The most noticeable change is the drastically improved sound. For example the HG 12kVA Hydraulic Generator’s sound pressure level dropped from 91 dB (distance 1 meter) to 83 dB (distance 1 meter). This means the sound level is significantly lower. However this is not the only factor that makes the motor sound more pleasing for the ear. The improved sound structure and frequency level are even bigger factors which make the Dynaset equipment almost feel like silent. The high pitch sounds are unpleasant for the human ear and big amplitudes tend to hurt the ears. The new Dynaset silent hydraulic motors are designed to produce sound which structure and frequency are more subtle for the ears. Therefore the motors sound very quiet. The better sound characteristics drastically improve the working environment and user ergonomics.

The silent hydraulic motors are designed to be more efficient and durable. The new Dynaset motors have less mechanical friction resulting better efficiency and increasing durability. The operating temperature is lower as well. The new shaft seal is made for higher pressure endurance. The new silent motors are easy to recognize from the all-black motors with Dynaset logo on them.

### **Benefits & Features**

The DYNASET silent hydraulic motors bring better user experience thanks to

- lower sound pressure level
- lower sound frequency
- pleasant sound structure
- less mechanical friction
- increased efficiency
- lower operating temperature
- better durability