

Componenta and Tamturbo® Touch-Free™ Complete, risk-free and cost-efficient compressed air solution

The compressed air solution from Tamturbo fully supports Componenta Corporation's sustainable development and better cost management of compressed air production.

Tamturbo compressors are very energy efficient and 100% oil-free. Therefore it produces no oil waste, oil-filters or oil contaminated condensate water. Tamturbo delivered an extensive service contract solution consisting of the Tamturbo® TT185 compressor, Movable Compressor Room with an independent cooling system as well as Tamturbo System Load Control to the company's foundry in Pori, Finland. The unit's excess heat is used to heat the warehouse in which the system is located, further lowering the energy needs of the operation.

Tamturbo System Load Control optimizes the use of the compressor fleet based on real-time air consumption.

CARE-FREE AND SUSTAINABLE OPTION FOR IMPROVING THE COMPRESSED AIR SYSTEM

In 2017 Componenta performed an analysis to renew the equipment and to find the most sustainable and the most cost-effective solution. Componenta has been running a development project aiming to improve the compressed air network. At the same time, the existing compressors were getting end of their life cycle. They ended up with Tamturbo's with a Touch-Free™ Air service model.

The energy efficiency of compressed air production consists of several factors. The condition and age of the compressed air network and equipment are important factors when one is looking for opportunities to reduce the compressed air costs. As compressor energy consumption is a major part of the compressors' life cycle cost the energy costs of the compressed air production can be influenced by more energy efficient compres-

Componenta is an European supplier of high quality casting products, whose customers are international manufacturers of vehicles and industrial machines. The company wanted to extend their corporate targets, sustainable development and better cost management also to compressed air.



sor technology and optimizing the usage of compressors based on actual consumption. Tamturbo's highly efficient compressors combined with extremely wide turndown range ensures savings in virtually in all conditions. Due to normal working processes in a foundry, the air contains a lot of tiny particles from the production process.

The Movable Compressor Room creates flexibility and can be even placed outside. It fits well into Componenta's fluctuating conditions. Additional intake air filtration increases the durability of machinery and equipment, also improving the quality of compressed air.

TOUCH-FREE™ AIR HELPS CONCENTRATE ON CORE BUSINESS – BOTH FROM ECONOMICAL AND OPERATIONAL PERSPECTIVE

The solution was delivered with the Tamturbo® Touch-Free™ Air- compressed air service agreement, which means that Componenta didn't need to invest in the

new equipment. They only pay for the actual consumed compressed air. Tamturbo takes care of everything - the System Load Control, Movable Compressor Room and their service and, of course, the compressor. A truly care-free package.

"The Touch-Free™ Air contract offered by Tamturbo has lowered the barrier to upgrade the compressed air systems with technology from this millennium without new investment or unpleasant and unexpected maintenance costs in the future. This further helps us to manage the cost of compressed air production. We only pay for the air we use. By improving the compressed air system, we have been able to significantly reduce the cost of production. Additionally, we were able to connect our old compressors into the same Tamturbo System Load Control. This makes control of the compressed air production simple. With the system we have adequate airflow in all consumption situations in the most cost-effective way," says **Componenta's Maintenance Manager Petri Kulmala**.

PROVEN COMPETITIVE ADVANTAGES

Touch-Free™ Air service agreement:

- No need to invest
- No additional fees / maintenance costs
- Invoicing due realized air usage

Delivered

- Tamturbo® TT185™ - turbo compressor
- Movable Compressor Room with independent cooling system
- Tamturbo® System Load Control – multicompressor control system



Tamturbo
JUST AIR

+1(314) 662-0188 Americas
+358 (0)10 423 2303 Global
info@tamturbo.com
www.tamturbo.com

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