



RUNTECH SYSTEMS BUYS EV GROUP OY

The acquisition of EV Group will further enhance our position as one of the bigger solution providers for our customers in the paper industry – with this acquisition taking place we will be able to supply total machine line rebuilds and modernizations with clearly bigger scope than before. Our possibilities to be the total solution provider will further strengthen and our process knowledge and solutions will improve for example in the following areas:

- Total runnability solutions in all process areas
- Speed and production increase project in the all machine areas
- Total solutions for dryer sections – including the blow boxes and tail threading solutions
- Vacuum system solutions including the heat recovery plans and possible implementations of the heat recovery solutions

EV Group Oy has successfully delivered high quality products and services to the paper and board industry since 1992.

EVG's high quality solutions improve the paper and board machine runnability, energy and process efficiency, cleanliness and paper quality. Durable technology solutions and professional services eliminating problems that limit the paper and board making processes are available for the wet end, press and dryer sections.



New Team Members:

Runtech China:

Wu Chenxi – Projects
Huang Junjie – Electric and Automation
Gu Xinghua – Projects

Runtech Finland:

Tero Pärssinen – Technology Manager
Heli Roimola – Purchasing and logistics assistant
Miika Mankila – Tail threading specialist
Youri Yläkäs – Project technician

START-UPS:

EP Turbo #200 started up in DS Smith Kemsley PM6, UK.

Full vacuum system rebuild started up ahead of schedule. Old vacuum system (2 x multistage blower + 2 LRP's) was fully replaced by 4 x EP600 Turbos.



Dismantling old blowers

Installation took place in three steps and all turbos were installed while the machine was running. The first turbo was installed in Oct -16 and the last one started up in December -16.

Project fulfilled all expectations and the power consumption is below the guaranteed value. Total energy saving is over 12 GWh/year.

Four separate frequency converter driven EP Turbos maximizes the savings and makes the vacuum system controllability very simple. Customer reported that it's extremely easy to optimize the vacuum levels based on Ecoflow dewatering measurements and always run the machine with the lowest possible energy consumption.



New EP600 Turbo blowers installed behind the machine.

DS Smith Kemsley PM6 is a 6.9 meter wide linerboard machine producing approx. 260 000 t/a. DS Smith is the largest recycled paper producer in the UK.

If you want to learn more about the project please contact: sales@Runtech.fi



PRODUCT UPDATE

NEW EP600 Turbo units will provide higher air flows, vacuum levels and wider operating window compared to the existing EP500 units.

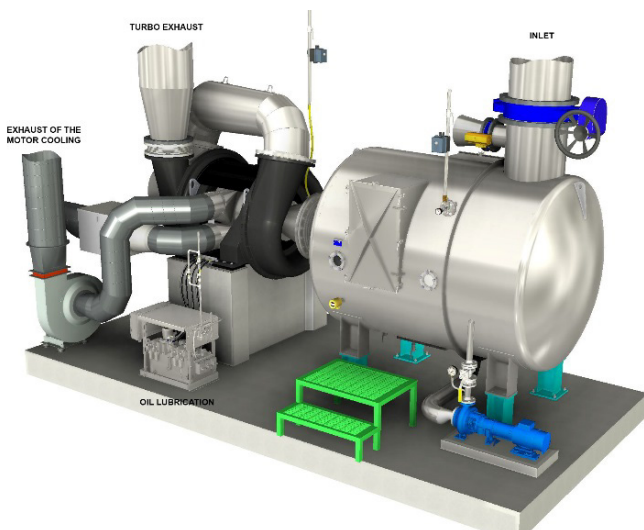
Newly designed motors and impellers give up to 12 m³/s (25 000 cfm) air flow and -73 kPa (22 inHg) vacuum levels. EP600 Turbo series has three different types for different applications and vacuum levels:

- EP600-T1: Special design for Tissue machines
- EP600-H1: New design for medium vacuums
- EP600-S2: For highest vacuum levels



All impeller models are available in titanium and composite. EP600 Series Turbo comes with new generation oil lubrication unit, motor cooling system and EcoDrop 5 water separators.

New EP600 unit is still very compact and light so perfect option for rebuilds. Footprint of the EP600 + Ecodrop separator is W2,2 x L5,5 x H3,2 meters.

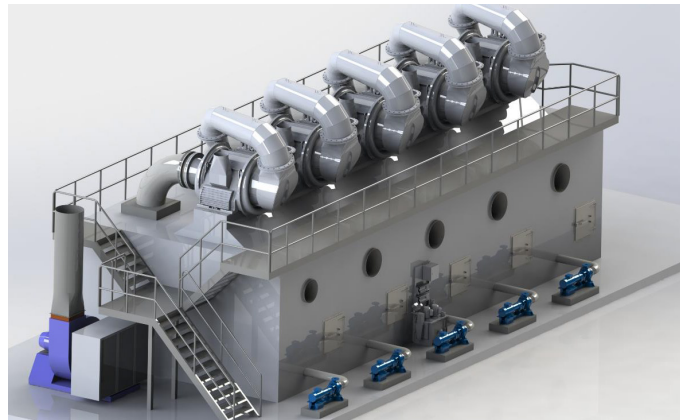


LATEST ORDERS

Anhui Shanying Paper Industry Co. orders RunEco vacuum system rebuilds for their PM1, PM3, PM5 and PM6 machines. One of the ordered 20 Turbos is Runtech **Turbo #300**.

DS Smith Kemsley PM ordered Turbo #200 in Feb -16 and only 8 months later Shanying Paper breaks 300 limit.

Golden Phoenix Paper orders EP turbos for their new PM8 and PM9 machines. Delivery includes totally 10 pcs EP Turbos and concrete water separator system.



Mondi Ruzomberok orders RunEco vacuum for PM1. Delivery includes two EP500 Turbos, press section doctoring improvement package and Ecoflow system. Additionally PM1 orders 3rd step for the ropeless tail threading system.

Ruzomberok PM17 orders ropeless tail threading rebuild including slalom section vacuum rolls and web stabilizers. PM18 ordered pope reel tail threading upgrade. Project target is to improve operator safety.

Muda Paper Kajang PM6, Malaysia orders vacuum system rebuild from Runtech. Delivery includes also press section doctoring rebuild and Ecoflow system.

Other RunEco projects:

- ICT Pioneer project, India
- Silverton Pulp&Paper, India
- Confidential Tissue project, Mexico
- Confidential Tissue project, Poland
- Interpac PM1, Egypt
- Schoeller Mayak, Russia
- Hinojasa Paper Sarria de Ter, Spain
- JSC Aleksinskaya PM1, Russia
- Confidential Tissue project, UK
- Confidential Tissue project, Germany

Chung Hwa Pulp, Taiwan orders press section rebuilds for PM20 and PM21. Delivery includes press section doctoring improvement and Ecoflow system.