

Romax's Software

OPENS SOUTH KOREAN MARKET TO WIND TURBINE MANUFACTURER

South Korean electricity company Hyosung has high hopes. It's aiming to increase its presence in the wind turbine industry by designing and manufacturing its own units.

At present, Asia lags behind Europe in the field of wind energy. Still, India has made significant strides in wind energy, with Suzlon leading the way. Japan's Mitsubishi Corp. is a major player. According to a report by the World Wind Energy Association, India recently overtook Denmark and now ranks fourth both in terms of overall capacity (4.430 MW) as well as added capacity (1.430 MW). Also, the association reports a 428.6% growth rate for South Korea in 2005 wind energy installation. However, in South Korea, the developed wind turbines have been manufactured by European companies.

Hyosung, however, wanted to get rid of that lag and contacted Romax Technology for technical assistance in its attempt to manufacture its own wind turbine units. Also, Hyosung wanted to increase Asia's contribution to leading-edge wind energy technology development and manufacture.

Romax Technology's involvement in this project began when the company secured its ongoing partnership with Hyosung's Power and Industrial Systems Performance Group in 2004. The transmission and driveline software and consultancy specialist was contracted to help Hyosung design gearbox



systems for the new range of wind turbines.

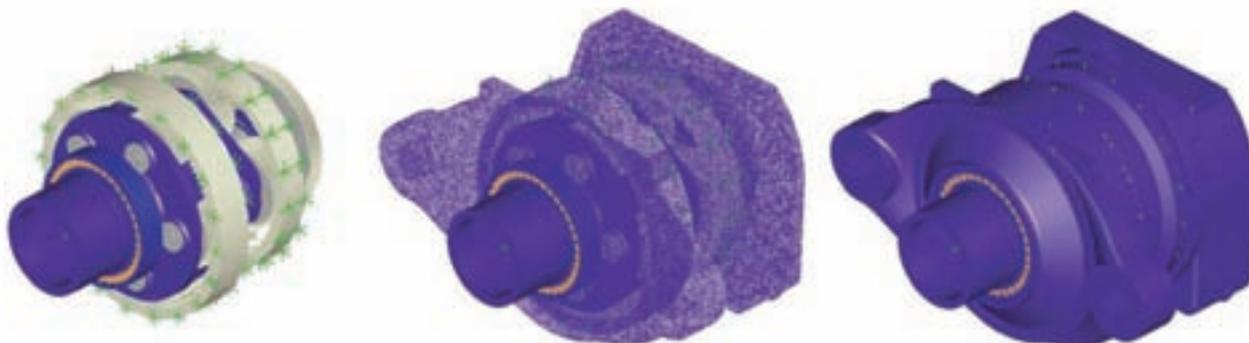
Romax collated the commercial and engineering market research, conceptualized designs of various gearbox models and selected the design.

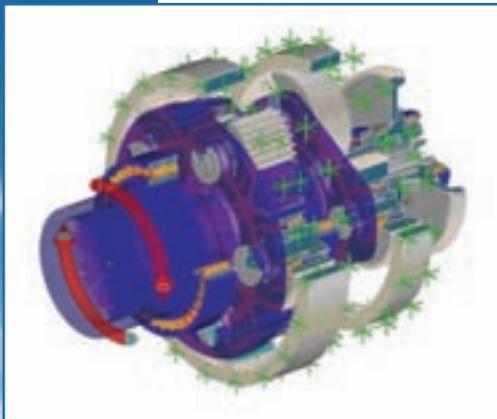
Business development manager Simon Roberts says Romax Technology essentially built the gearbox for Hyosung.

"We designed the gearbox in partnership with Hyosung, meaning we did a consultancy design project with our own engineers and then taught their engineers as much as possible to perform the activity themselves," Roberts says.

He adds that the project is currently in the prototype-building stage. Romax and Hyosung are jointly conducting preliminary hardware testing.

Romax's transmission and driveline software, RomaxDesigner has been utilized throughout the project, allowing continuous





physical build testing. RomaxDesigner designs and analyzes wind turbines from durability to noise to vibration hardness.

Also, Romax was instrumental in helping Hyosung achieve its Germanischer Lloyd Wind Energy (GL) certificate—essential for a wind turbine plant. GL is the internationally operating certification body for wind turbines and carries out examinations and certifications. Certification is available for on-shore and off-shore wind turbines, as is site assessment, certification of condition monitoring systems, fabrication surveillance, commissioning and periodic monitoring, measurement, research and guidelines.

“Speed is essential to the success of this venture, and Romax Technology has not only provided us with the technology transfer and engineer training to empower our engineers with the expert edge in design and development, but it has also given us the software tools to allow these design solutions to evolve much faster,” says Hyosung vice president, S.K. Lee. ■

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