

# Process water efficiencies at Corus Scunthorpe increase production capacity



GEA 2H Water Technologies Ltd

Northampton, UK 6th July, 2010 - GEA 2H Water Technologies Ltd, in conjunction with Cooling Parts & Services Ltd ) (cps™, have recently successfully completed a refurbishment project on the Corus Concast Wet Cooling Towers site in Scunthorpe.

Wet cooling towers are considered the most efficient way of [cooling process water](#) [[link to process water cooling/uses](#)] and this project was to enhance the performance of the Concast Wet Cooling Towers application in order to increase the production capacity at the Corus Scunthorpe plant.

Richard Manning GEA 2H's MD said "*The construction and operation of Wet Cooling Towers require the use of efficient fill pack, drift eliminators and air inlet louvres, so the choice of pack was key to achieving the [process cooling](#) [[link to Cooling Process Water](#)] productivity enhancements needed, namely high working temperatures, low fouling and durability. GEA 2H worked with CPS to review performance data and assist in the design of the optimum mix and configuration of the overall tower fill which consisted of a range of cross fluted and vertical packs – a unique aspect of GEA 2H's design capability which means that different functional types of pack can be custom built to meet the specific project requirements.*"

The GEA 2H PLASdek™ fill range of different structures and surfaces, was able to match the specific performance requirements as follows:

- **PP** type pack was chosen in order to increase the heat transfer ability as it is suitable for applications of up to 80°C and operating temperatures were close to the limit of standard PVC fill
- A **Cross Fluted** [[link to product profiles PLASdek Cross Fluted](#)] and Vertical fluted pack combination was selected as it addressed both the thermal and low fouling requirements of the project. The combination of angled and channel foils in one pack type promotes intensive mixing of the process water and air flow which delivers efficient heat transfer performance whilst also causing sufficient turbulence within the pack to discourage fouling.
- **Vertical** [[link to Product Profile PLASdek Vertical](#)] channel fill types and splash types for the high fouling application.
- PP also offered additional foil thickness for similar pack weight. Corus appreciated the robustness of the pack which, as well as providing strength during normal operation, will also help reduce the risk of damage when maintenance is carried out in the future.

## The Product Profile:

1309m<sup>3</sup> FKP18.19 Low Fouling Pack in a combination of angled 19mm and vertical 18mm sheets  
319m<sup>3</sup> FKP319  
LEP065 Air Inlet Louvre3

Phil Andrews, Managing Director, ) (cps™, stated "*As with all refurbishments, the shut down period was fixed and short and therefore support of the installation with 24 hr working was critical. GEA 2H's professional support ensured that this was achieved firstly by guaranteeing that the pack would be delivered on schedule and secondly by providing professional support for the duration of the project.*"

Learn more about our [Design Service](#)  
More information on [Process Water Cooling](#)  
visit [www.gea-2h.co.uk/process-water-cooling](http://www.gea-2h.co.uk/process-water-cooling)  
or call +44 (0)845 003 9114

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**GEA 2H Water Technologies Ltd (GEA 2H)** is the UK's leading manufacturer of plastic media for water management plant. Its applications are for utilities, such as electricity generation, water supply and waste water; general industrial water cooling and commercial and domestic storm water control and attenuation. GEA 2H sell direct and indirectly via agents and builders merchants and work closely with specifiers, architects and civil engineers in the design and installation of a wide range of industrial projects.

During its 30 years in business, GEA 2H has built an outstanding reputation for quality products and services. GEA 2H comprises the former Environmental Control Division of Munters, Ranik and 2H Aqua operations. GEA 2H supports customers in the UK, Eire and Middle Eastern countries.

GEA 2H Water Technologies Ltd is one of 250 operating companies in the GEA Group AG. GEA is a leading global technology group with core competencies in speciality mechanical engineering and plant engineering. Its annual sales in 2009 were €4.4 billion and it employs 20,000 people in 50 countries

**Cooling Parts & Services Ltd** are an independent parts and service provider for all market sectors who are users of Water Cooling Towers and Evaporative Condensers.

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### Web Link HTML Details

*For use on web links from this document to the relevant section of the GEA 2H website:*

#### Text

GEA 2H, the UK's leading manufacturer of [process water cooling equipment](http://www.gea-2h.co.uk/process-water-cooling/) has partnered with Cooling Parts & Services Ltd (cps™); in have recently successfully completed a refurbishment project on the Corus Concast Wet Cooling Towers site in Scunthorpe.

#### HTML

html code for the link to Cooling Parts & Services:

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<a href="http://www.coolpartservices.co.uk/" title="Cooling Parts & Services Ltd (cps™)">Cooling Parts & Services Ltd (CPS)</a>
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