

AEDIS IN ENGINEERING AND MANUFACTURING HYUNDAI PRECISION & INDUSTRY CO., LTD



Hyundai Precision & Industry Co., Ltd. (HDPIC), established in 1977, has grown at a phenomenal rate to become a successful company of international scale. HDPIC manufactures railcars, containers, precision machinery and four wheel drive (4WD) automobiles. HDPIC also produces advanced machinery; NC machine tools, injection-molding machines, die casting machines, hydraulic presses and comprehensive plant facilities on a turn-key basis.

Being a diversified industrial equipment manufacturer, HDPIC has made rapid advancements to technology-intensive fields. Presently, HDPIC manufactures the best selling 4 wheel drive multi-purpose vehicles and NC machine tools. In order to make this feat possible, HDPIC had to devise and implement a strategy that would create synergy among all its resources.

Hyundai uses the system as part of a manufacturing process for a 4-wheel drive, off the road vehicle. HDPIC had taken great strides forward by introducing the 4WD Galloper. The accumulated engineering know-how and sound financial performance have facilitated the development of this rugged, yet stylish vehicle. The Galloper, now the most popular all-terrain vehicle in Korea, is offered in 3-door and 5-door body styles with options of a 2.5-liter diesel, a 2.5 diesel turbo or a 3.0-liter V6 gasoline engine.

The AEDIS large-format CALS-based document management solution was used in the engineering of the 4WD Galloper. The CALS standards technology of AEDIS allows Technical Data Interchange (TDI) of engineering documents among suppliers and contractors, regardless of computer platform, drawing size or file format. Both legacy paper data that stores the historical engineering knowledge, and newer CAD based design systems, were integrated with the AEDIS solution providing central access and archive capabilities. The decision to use the CALS standards in drawing management was an important step in operation of international TDI among the HDPIC companies. The technology of AEDIS was key to providing a common interchange standard to all of the HDPIC engineering tasks, and laid the foundation for even greater productivity and efficiency in the future. Local applications were managed to provide secure access, and AEDIS Workflow™ provides a complete work history of all activities in the development of the product. The implementation has eliminated problems with out-of-date engineering information that have caused unproductive and incorrect engineering change orders (ECO's).

Numerous other plant and engineering companies were relying on the capabilities of AEDIS to maintain their latest information needs. AEDIS has been and still is today, well recognized for the productivity benefits it provides in a corporate environment that require a rapid deployment process.

HDPIC's geographical expansion strategies have also been very successful. It now has manufacturing facilities in Mexico, Thailand and Indonesia. HDPIC has significantly enhanced its international competitiveness and increased its global presence. Today, HDPIC services its customers in many parts of the world on site with the support of local expertise.