PRODUCT LIFECYCLE USER SUPPORT

- Integrated Logistic Support
- Warranty Services
- Training
- Civil Works
- Maintenance, Repair & Conversions
- Technical Assistance
- Spares Support & Test Equipment
- Maintenance Management
YOUR RELIABLE PARTNER THROUGHOUT THE LIFECYCLE OF YOUR FLEET

New assets with more and more advanced technology, aging of maintenance staff, limited qualified resources and defence budget cuts are just some of the challenges facing navies today.

To support our customers, Damen Schelde Naval Shipbuilding (DSNS) has developed a wide ranging Product Lifecycle User Support (PLUS+) portfolio. With its PLUS+ portfolio DSNS aims to support its customers in achieving the highest operational availability of their vessels against the lowest and controllable lifecycle costs. The DSNS PLUS+ chain, as graphically presented below, contains a one stop shop philosophy to support our customers in operating and maintaining their vessels.

KEY BENEFITS:
- Improved fleet readiness
- Controlled lifecycle costing
- Effective training solutions
- Expert knowledge of your vessels
- Global technical support
- Worldwide spares availability
- Glacial refit and modernisation to extend your vessels’ lifetime
- Support for your maritime infrastructure

DSNS PLUS+
MAXIMISE FLEET AVAILABILITY,
MINIMISE LIFECYCLE COST

INTEGRATED LOGISTIC SUPPORT  WARRANTY SERVICES  TRAINING
SPARES SUPPORT & TEST EQUIPMENT  MAINTENANCE MANAGEMENT
TECHNICAL ASSISTANCE  MAINTENANCE, REPAIR & CONVERSIONS  CIVIL WORKS
We anticipate on this by including ILS programmes with our newly build products. With the inclusion of ILS programmes, DSNS retains a design to maintain principle. The DSNS PLUS® approach is based on the latest military and commercial standards to ensure the highest quality, according to, for example: ASD-S1000D, ASD-S2000M, ASD-S3000l,威- Stan1388-2B and Def Stan0640.

INTEGRATED LOGISTIC SUPPORT (ILS)

Eighty percent of the operational availability and lifecycle costs are determined during the design and construction of each vessel.

GOOD PREPARATION IS HALF THE BATTLE
Customer satisfaction is Damen’s prime objective. DSNS PLUS* establishes a local presence during the warranty periods of newbuild vessels, in order to ensure the quality of your vessels.

We establish a day-to-day dialog on the ship’s performance, fast response times, 24/7 availability in case of emergencies and general problem solving.
DSNS strives to ensure your vessels perform optimally, for which knowledge and skills of the crew are paramount. Therefore, we have designed a dedicated training approach which ensures crew and maintenance staff to have all the skills and knowledge required to carry out their tasks efficiently and safely. Our training approach begins with individual training and turns gradually into team training for the ship’s crew. The DSNS PLUS+ training approach is flexible and will be tailored to your needs.

DSNS PLUS+ includes training equipment to enable you to perform training courses without using your own vessels. This provides flexibility in scheduling of your future training courses. This will have a significant influence on the vessel’s operational availability and lifecycle costs. We are continuously searching for innovative training solutions to reduce costs and increase the quality of training, including virtual reality applications in combination with serious gaming features.

DSNS PLUS+ training is not limited to crew and maintenance personnel. We also offer shipbuilding transfer of technology (ToT) programmes. These programmes are in direct correlation with the options we offer to build vessels at a location selected by our client. Through tailor-made programmes, we train yard personnel to enhance their building and yard management skills. This is one of the success factors for successful in-country building.

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One of the most significant causes of downtime for a vessel is not having the correct parts available. Delivery times within the naval domain in certain circumstances can be relatively high. It is paramount that the correct parts are kept in stock to ensure fast delivery times and reducing the systems downtime to a minimum.
INNOVATIVE SOLUTIONS FOR OPTIMAL PERFORMANCE

MAINTENANCE MANAGEMENT

To manage your operational availability and associated costs during the lifecycle of your vessel, the key success factor is the ability to predict the future. We use innovative preventive, predictive and optimised logistic solutions to achieve this. This provides a secured supply chain, prevention of unwanted events and upfront insight in system behavior.

Increasing technological complexity and the adjoing increase of administrative data collection, a computerized maintenance management system is a powerful tool to stay in control of the maintenance process. DNs can provide turn-key Computerized Maintenance Management System (CMMs) solutions or Maintenance up-loadable data which can be incorporated into your existing DMMs. To improve the operational availability and lifecycle costs we consider the lifecycle as a dynamic environment and manages the maintenance as such.

Our logistic management solutions aim for continuous improvement of the supply chain in order to reduce delivery times and increase logistic support availability. Obsolescence management, stock optimization services and our strong relations with our supplier base are amongst others the foundation of our maintenance management services.
With this knowledge we can support you with health monitoring surveys, problem diagnosis/root cause analyses, problem solving, corrective and preventive maintenance. With our global network of field service engineers we can immediately provide support at your own premises. Remote maintenance support via augmented reality and condition monitoring are topics, which are currently under development. This supports our aims of continuing improve our provision of high quality assistance at a competitive price.
HIGH QUALITY, GLOBAL SOLUTIONS FOR MAINTENANCE, REPAIR & CONVERSIONS

MAINTENANCE, REPAIR & CONVERSIONS

Damage, retrofits, modernisation and maintenance overhauls are common practices during the lifecycle of naval vessels.

DSNS PLUS+ provides for these categories a support solution through our global network of repair and conversion yards. As every ship is unique, our approach includes a comprehensive survey before bid to determine all necessary activities for the work at hand. Our aim is to minimise unexpected costs. We always seek the opportunity to combine preventive maintenance with repair and/or modernisation. Such combinations will have a positive effect on the operational availability and lifecycle cost of your ships.
WORLDWIDE CIVIL SOLUTIONS FOR NAVAL MAINTENANCE ORGANISATIONS

CIVIL WORKS

Every military organisation faces multiple challenges and considerations in their decision making process on the maintenance strategy for new assets. Geographical, strategical and geopolitical location can be amongst others of influence for a defence organisation. We always strive to support you in every maintenance consideration. We include in our portfolio Civil Works for the provision/support of your naval infrastructure.

Civil construction services portfolio consist of:
- Site surveys
- Geotechnical and bathymetric investigations
- Underwater survey and services
- Civil engineering consultancy/Project management
- Project execution
- Turn-key programmes
EXPERIENCED PARTNER

For over 60 years, Damen has been the dedicated shipbuilder of the Royal Netherlands Navy, working alongside the navy on the design, engineering and construction of eight generations of Combatants, as well as Naval Auxiliaries, Landing Platform Docks and Hydrographical Survey Vessels.

We are able to apply this experience and knowledge, not only to newbuilding projects, but also to our service activities. In this manner we better able to support our customers in the operation of their vessels. At the same time, this presents us with the opportunity to learn more about our products throughout their life cycle, in order that we can continuously work towards their improvement.
Damen is committed to continuously improving the health, safety and welfare of all people working under Damen Shipyards Group’s sphere of influence. Damen is establishing a safety culture that includes the management and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate and