

**TKMS**

Your Maritime Powerhouse



**HDW<sup>®</sup> CLASS  
212CD**

# HDW® CLASS 212CD

## Factsheet

The HDW Class 212CD submarines are pioneers of a new era in the submarine sector and have what it takes to become the new NATO standard. Thanks to their diamond shape, improved sensor technology, increased range and the novel ORCCA® command, control and weapon system, they set previously unattained standards for undetected and at the same time powerful missions. The 212CD program marks the first time that the navies of two Northern European nations, Norway and Germany, will operate identical submarines in their fleets and benefit from interoperability and shared resources. The HDW Class 212CD is thus a thrust towards the changing naval challenges of the time.

## Main Data

Length overall	approx. 74 m
Height	approx. 13.0 m
Complement	approx. 28+x px

### Design Highlights

- ♦ European design for worldwide operations
- ♦ Extended range capabilities
- ♦ Excellent hydrodynamic efficiency and maneuverability
- ♦ Stealth behavior
- ♦ Minimal signature
- ♦ Flexible weapon payloads
- ♦ Support of Special Operations Forces
- ♦ kta - ORCCA® multilayer combat system architecture
- ♦ MOTS evolved design
- ♦ Growth potential for future appliances
- ♦ Stainless materials for low maintenance costs
- ♦ Developed according Naval Submarine Code (NSubC)

### Hull Structure

- ♦ Non-magnetic steel
- ♦ Double hull design MOTS evolved design

### Propulsion Plant

- ♦ Two diesel generator sets
- ♦ Next generation PERMASYN® motor
- ♦ Advanced Submarine Fuel Cell system
- ♦ Fitted for lithium ion battery technology

### Electric Plant

- ♦ Different AC and DC networks
- ♦ Efficient controllable servo drives
- ♦ High-end LED lighting system
- ♦ Integrated platform management system
- ♦ Degaussing system

### Command and Surveillance

- ♦ Integrated command and control system
- ♦ Common approach for network/server Infrastructure
- ♦ Virtualized processing
- ♦ Server based architecture
- ♦ 360° sensor coverage
- ♦ Active and passive sensor systems
- ♦ Non-penetrating optical sensors
- ♦ Navigation Data Distribution System
  - High accuracy inertial navigation
  - Electronic Chart Display and Information System
- ♦ Integrated radio communication system
  - Tactical and administrative
- ♦ Electronic support measures
- ♦ Weapon control system

### Auxiliary Systems

- ♦ Modular hydraulic station
- ♦ Maintenance-optimized platform systems

### Outfit and Furnishings

- ♦ Divers lock
- ♦ Special Operations Forces support incl. storage and preparation area
- ♦ Fitted for auxiliary thruster
- ♦ Comprehensive safety and rescue systems

### Armament

- ♦ Heavyweight torpedoes
- ♦ Fitted for missiles
- ♦ Torpedo counter measures
- ♦ Fitted for UxV, off-board sensors

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