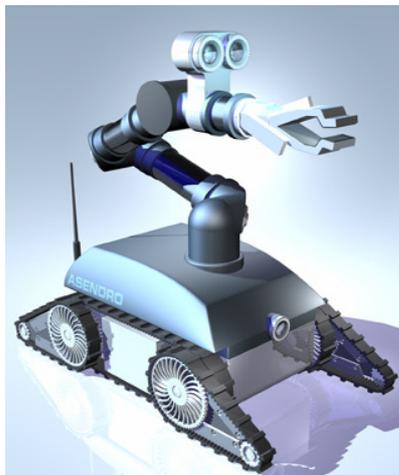


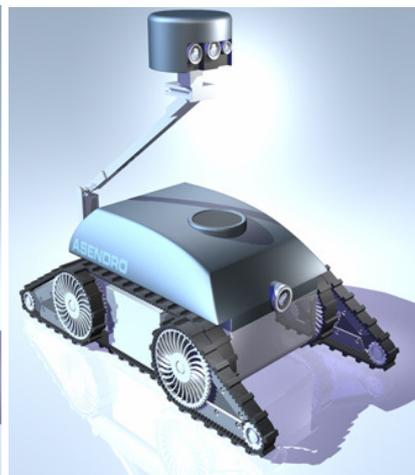


## Team Information

Picture of vehicle:



ASENDRO EOD



ASENDRO Scout

Name of vehicle:

Picture of team leader:



Name of team leader:

Reinhard Schmiedl

Team Name:

ASENDRO

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Location:

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## Team Information

### Team Description:

The ASENDRO Team is the entry of Diehl-BGT-Defence GmbH & Co. KG into the ELROB2006.

In cooperation with Robowatch Technologies, Diehl BGT Defence has developed the ASENDRO modular robot. This pioneering new development performs reconnaissance and EOD / IEDD tasks for the protection of rescue forces and emergency services in dangerous situations. The robot may be equipped with a manipulator arm and various sensors for detection of warfare agents.

With appropriate configuration, the ASENDRO robot can be operated in special applications:

ASENDRO-EOD: support for special forces in EOD / IEDD missions

ASENDRO-SCOUT: reconnaissance robot for monitoring tasks, also providing, for instance, police forces with a reliable connection to a hostage-taker

ASENDRO-SCOUT+A/B/C: on-site support for fire services or industrial companies in measuring contamination by nuclear, biological and chemical agents. The data are transmitted to the operator at safe distance.

### Key technical data:

ASENDRO navigates either autonomously or by remote radio control at speeds up to 15km/h. Its flexible chain drive enables use of the robot with a weight of only approx. 45kg on various surfaces, in outdoor terrain and within buildings, so that it can also climb stairs and over obstacles. ASENDRO's small dimensions (approx. 60 x 40cm) also allow its application in cramped conditions, even in complex scenarios such as buses, trains or planes. ASENDRO's control is very simple and intuitive. Training only requires little time.

With the ASENDRO-EOD variant, by means of intuitive remote control technologies, the operator can receive images in stereo quality directly from the robot while the manipulator arm with the stereo cameras and the gripper moves synchronously with head movement (head tracking) or with hand movement (hand tracking). Thus, the operator receives a realistic impression of the location of the ASENDRO-EOD, is able to estimate distances from objects optically and to grip objects exactly and easily.

### Sponsors:

none

### Selection of scenario:

urban  non-urban  EOD/IEDD/UXO   
exhibition