TDW
TECHNOLOGY
DEVELOPMENT
WARHEAD SYSTEMS
“THE DIFFERENCE”
The efficiency of guided weapon systems is vitally determined by their terminal effect on targets. Producing and intelligently controlling this terminal effect while simultaneously avoiding collateral damage are key features required in weapon systems. TDW Gesellschaft für verteidigungstechnische Wirksysteme mbH, a wholly owned subsidiary of MBDA Germany, is experienced in the design and manufacture of warheads, and warhead systems including the associated fuzes and safe & arm devices. More than 2 million warhead systems have been produced and delivered so far today. The available key technologies include insensitive explosive charges with outstanding safety under extreme mechanical and thermal threats which provide nonetheless ultimate destructive performance. Novel technologies are also target adaptive warheads and "intelligent" high shock resistant detonation triggering fuzing systems.
TDW’s value creation chain encompasses all of the following activities to their full extent:

- Design and assessment
- Development and qualification
- Manufacture and integration
- Testing and validation

With approximately 130 employees, TDW operates as an essentially autonomous full-service company at one integral site in Schrobenhausen, Germany.
TDW designs and manufactures all kinds of warhead systems such as shaped-, blast-, blast/fragmentation-, tandem-charges and penetrators for the MBDA Group as well as for other missile system houses worldwide.

- **Complex Weapons**
  - Meteor, PAC3 LE, ESSM, CAMM, Sidewinder, RAM, ASRAAM
  - Taurus KEPD 350, ALARM, HOT-3, PARS3 LR, Brimstone 2, MIZRAK-U, MIZRAK-O
  - RBS15 Mk3, NSM

- **Man Portable**
  - Mistral, Milan

- **Underwater**
  - Sting Ray, Spearfish

The payload of a missile or torpedo has to be a lead product which combines target optimised effects and intelligent fuzing. Each product is high end and designed pursuant to customer’s needs. **That is the difference!**
Thanks to customer- and self-funded research and development, TDW is today at the forefront of technologies for future warhead systems. Latest battlefield scenarios, especially military operations in urban terrain (MOUT), require that a single weapon system offers high precision and flexibility in terms of the required effect. To fulfil these criteria, TDW developed a family of FLEXIBLE RESPONSE WARHEADS:

- Switchable Mode Warheads (Dial-a-Mode)
- RADIUS® (Dial-a-Yield)
- Aimable Warheads (Dial-a-Direction)
- Multi-Effects Warheads (Dial-an-Effect)
TDW Contact

TDW Gesellschaft für verteidigungstechnische Wirkysteme mbH
Hagenauer Forst 27
86529 Schrobenhausen, Germany

Phone: +49 8252 99-6592
Fax: +49 8252 99-6120
TDW.contact@mbda-systems.de

www.tdw-warhead-systems.com