

Cartridges 76mm x 636 for all Types of OTO Melara Guns 76mm L/62



General

Diehl developed a complete programme of cartridges 76mm x 636 for all types of the OTO Melara/OTO BREDA 76mm L/62 naval guns. All cartridges are characterized by an identical trajectory, the exterior ballistics completely fulfill the standards which have been agreed within the O.M.C.G. user committee.

Based on the components cartridge case DM30 and Primer DM231 A1, there is a variety of rounds such as TP, Spotter, HE and HE-PFF. Besides the fuzes mentioned in this brochure, other fuzes may be used after adaption according to customer request.

The cartridges 76mm x 636 meet the environmental and safety requirements according to the applicable NATO specifications.

Type 248
TP-S



Type 251
HE-PD



DM261A2
HE-PFF



76mm

Weapon Systems

76/62 MM

Gun Mount (60rds/min)

76/62 C

Compact Gun Mount
(80 rds/min)

76/62 100

Rapid Gun Mount
(100 rds/min)

76/62 SR

Super Rapid Gun Mount
(120 rds/min)

76/62 AD

Above-Deck Gun Mount



Our major Navy Customers

First production in 1976.

**So far more than 300,000 rds.
sold to customers of:**

NATO

Canada, Denmark, Germany, Greece,
The Netherlands, France, Turkey, Poland

Non-NATO

Australia, Colombia, Ecuador, Ireland,
Qatar, Thailand, Oman

76mm

Basic Data

Gas pressure:

Max. 3,600 bar (+21°C)

Muzzle Velocity:

915 m/s (+21°C); adjustments to customer requirements possible

Length of Cartridge:

approx. 910mm

Weight of Cartridge:

12.5 kg

Weight of Propellant:

approx. 2.35 kg

Weight of Projectile:

6.3 kg

Storage Temperature:

-54°C up to +71°C (for TP)

Operating Temperature:

-35°C up to +52°C (for TP)

The same interior and exterior ballistics are applicable as compared to the Italian original ammunition. Furthermore, the ballistic properties of all 76mm naval ammunition types of Diehl comply with the NATO Standard Range Table, to the full extent. No additional measures are required beyond the necessary corrections (carried out as an adjustment to actual weather, propellant temp. data etc.).

76mm x 636 Rounds

Target Practice

- TP • DM248
- TP-T • DM258
- TP-S • 248, 248 Mod.

High Explosive

- HE-PD • 251
- HE-VT • 261
- HE-PFF • DM261A2

Clearing Charge

- DM11

Dummy (Drill) Round



Target Practice (TP) DM248

Successor model of DM238

Target Practice Tracer (TP-T) DM258

Successor model of DM228 A3



248 Target Practice-Spotter (TP-S) and 248 Mod. (for fuze MK417)

Main characteristics:

- 100 g Hexal as spotting charge (allows visual observation of correct fuze functioning)
- Inert filling (iron foam)
- Fuzes: all types of proximity fuzes



Dummy (Drill) Round

- No explosive components
- Exact copy of the live round
- Identical handling characteristics

76mm



HE Projectile 261 (HE-VT)

- Especially suited to engagement of air targets
- Composition B: about 510 g
- Proximity Fuze: M5983A3 or equivalent



HE Projectile 251 (HE-PD)

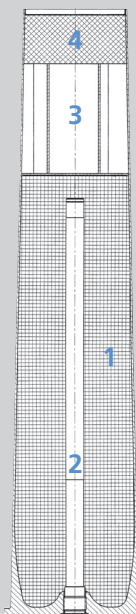
- Mainly for ship and surface targets
- Composition B: 660 g
- Fuze: MK 407 or equivalent



HE Projectile Pre-Formed Fragments DM261A2 (HE-PFF)

Main Characteristics:

- Mainly for air targets
- Pre-formed fragments (heavy metal balls, approx. 2,200 ea., diameter: 4mm)
- Composition B: 580 g
- Fuze: M5983A3 or equivalent



Clearing Charge 76mm x 500 DM11

- 1 Propellant
- 2 Primer
- 3 Spacer
- 4 Plug

76mm



Packaging

Standard packaging components:

- Ammunition Box
- Foam insert, top and bottom
- Aluminium covered bag
- Top

Standard Packaging

2 cartridges packed in 1 preformed inner packaging (material: EPS),
1 inner packaging sealed in aluminium covered bag, 1 bag packed in 1 wooden box

Alternatively, Diehl BGT Defence will deliver the goods in packaging according to customer requirements

