

## *A Study of Retrofitting Landmines*

---

The general characteristics of landmines in NATO countries are listed in Annex C, in Former Warsaw Pact countries are listed in Annex D and in other countries are listed in Annex E. The percentage distribution of mines according to categories in different group of countries is presented in Table 1. The distribution relates to different types and not to the quantities held in these groups of countries. The number of types and the distribution is based on the information available during the conduct of this study.

For each category of mines in each group of countries, the percentage of each type of mines having special features such as self destruct, self neutralizing or passive self deactivation devices, in each category was calculated and is shown in Table 2.

A statistical analysis was also conducted to determine the percentage distribution of different types of fuse initiation mechanisms, kill mechanisms, main charge explosives, casing materials and special features. The analysis for each group of countries is presented below.

### **4.1 NATO Countries**

Out of a total of 374 different types of mines analyzed in NATO countries, 44% are anti-personnel mines, 44% are anti-tank mines and 12% are other category of mines. The percentage distribution of different types of characteristics is shown in Annex F. The information on the size, total weight and explosive weight for landmines in NATO countries is shown in Table 3.

In general, the anti-personnel category of mines in NATO countries shows a wide variation in size and weight. Over 51% of the mines use non-metallic casings, making them difficult to detect. Fragmentation or blast are the primary kill mechanisms. The majority of these mines are pressure fused or pull fused and some are remote command fused. About 8% of different types of anti-personnel mines have self destruct or self neutralizing devices and few have passive self deactivation devices.

The anti-tank category of mines in NATO countries is larger in size and weight. Over 48% of these mines have non-metallic casings. These mines have blast, EFP or shaped charge as primary kill mechanisms. The majority of these mines are pressure or influence