

Key de	liverables:		
<b>√</b>	An IT-based solution, with an optional possibility to print hard-copy document of the ammunition fact sheets.	<b>√</b>	The information provided by the CM ID tool will contain descriptions, technical data, weight, line drawings, dimensions, photographs, packing information, hazardous materials information, and special information when available.
✓	The ability to 'drill down' from first principles of weapon and sub munition category.	<b>√</b>	The ID database will be available free of charge through the web and able to run on independent computers.
<b>√</b>	Pictorial guidance, including shapes and markings, where possible (parts of the funds will be used for purchasing property rights for use of pictures of explosive submunitions).	1	The CM ID tool will be easy to access and have both low system requirements as well as a low technical user threshold.
✓	Pictorial guidance, including shapes and markings, where possible (parts of the funds will be used for purchasing property rights for use of pictures of explosive submunitions).	✓	The technical datasheets will have to be uniform in its construction, in order to facilitate easy upgrade and overview.
<b>√</b>	Simple and intuitive user interface.	√	The CM ID tool <u>will not</u> describe render safe procedures (RSPs) for cluster munitions and explosive submunitions.

## **INTRODUCTION – CLUSTER MUNITION IDENTIFICATION TOOL**

The Cluster Munition Identification tool (CM ID tool) is a conduit for easy identification of the explosive submunitions in the weapon system. In order to support the CCM on issues related to reporting on State Parties' ordnance stockpiles covered by this convention, the GICHD is in the process of developing a software tool to assist State Parties in honouring its commitments to the convention as accurately as possible.

For States Parties without a complete inventory of its Cluster Munitions stockpiles, defining what ammunition falls exactly under the definitions described under article 2 in the Convention on Cluster Munition (CCM) presents substantial challenges. Within the Anti-Personnel Mine Ban Convention (APMBC) the definition of an AP mine was quite easily understood to most. The CCM is somewhat more detailed in its definition, in particular in describing what weapons are not covered by the convention (e.g. mentioning specific design features, numbers of sub-munitions and fuse types). These definitions can be easily understood by technical expert personnel, but for the typical government official involved in reporting of such weapons, the CCM definitions can be a challenge.

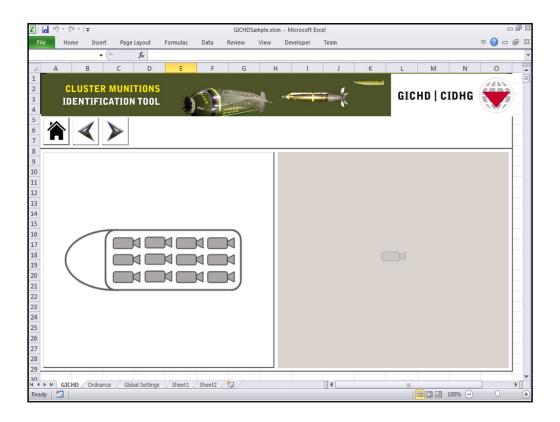
In many countries these munitions were procured from various foreign governments over many decades, while in others they were left behind when allies or occupants withdrew. There are hundreds of different Cluster Munitions carriers, many of which have very similar characteristics to unitary munitions. The GICHD has already been requested to support a State that was uncertain if a number of weapon systems were covered by the CCM.

Accurate initial reporting is critical for the success of the convention. The aim is to create a simple system that will allow managers and administrators with little technical knowledge to identify the types of cluster munition in their possession and to assess whether or not they fall within the categories banned under the CCM.

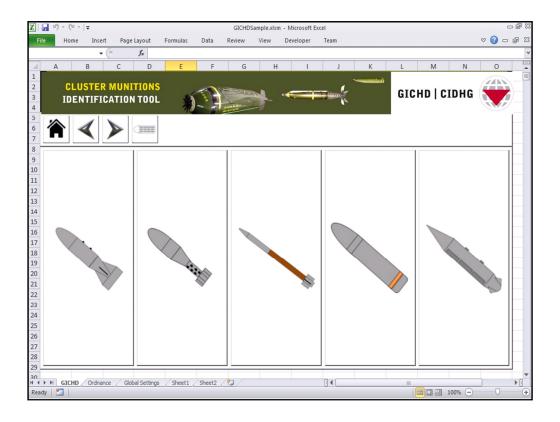
Further to this, an opportunity exists where the CM ID tool can also be used as a reference in cases which questions whether ammunition used in conflict falls under the definitions set in Article 2 of the Convention. In order to achieve this, the CM ID tool will need not only to contain a complete inventory of all the ammunition able to carry a cargo of bomblets, but also needs to contain a database providing an overview over the types and combinations of explosive submunitions that can be carried by such cluster munitions.

Benefits of the inclusion of the explosive submunition category in the CM ID tool are many. The software would be presenting a complete inventory of cluster munitions and submunitions that are banned by the CCM. Recent conflicts such as in Libya have demonstrated the need for a tool listing ammunition that is covered by the convention. Such an overview of ammunition that is banned by the CCM could assist in raising the stigma around the use of such weapons in conflict. Operators involved in clearance operations or training of demining personnel would be able to utilise the CM ID tool as a conduit for easy access to necessary technical information on explosive submunitions. Due to the intuitive design and the low technical threshold of the CM ID tool, also civil society could use the system as a channel of information for ammunition banned by the CCM.

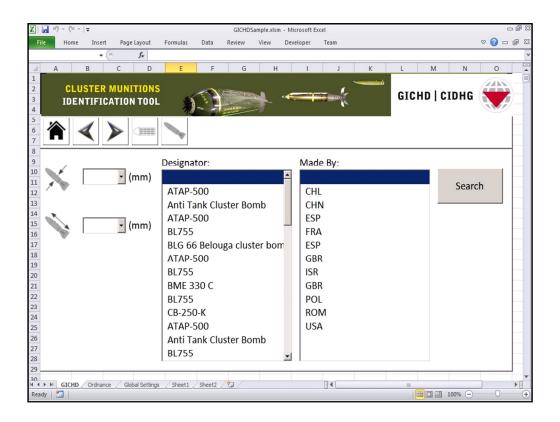
The GICHD and its partner organisations has to the best of its ability tried to assess all known ammunition of the cluster munition type in order to support states to report on their stockpiles as accurate as possible. There might however exist munition or munition types that are not included in the 'GICHD CM ID tool'.



Initial screen. Can offer choice between searching on cluster munitions (CM) or submunitions (SM) - SM option not yet available



Category screen: offers the choice of bomb, mortar, rocket, projectile or dispenser



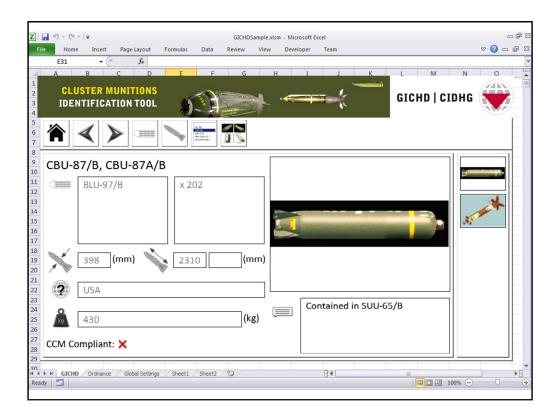
Pick screen. Can search on diameter, length, designator or country of origin. Dimensions search plus or minus 10% of entered values.



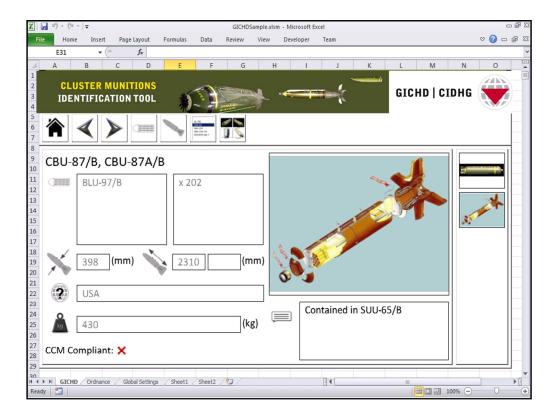
Pick screen: an example of a search based on approximate dimensions and country of origin



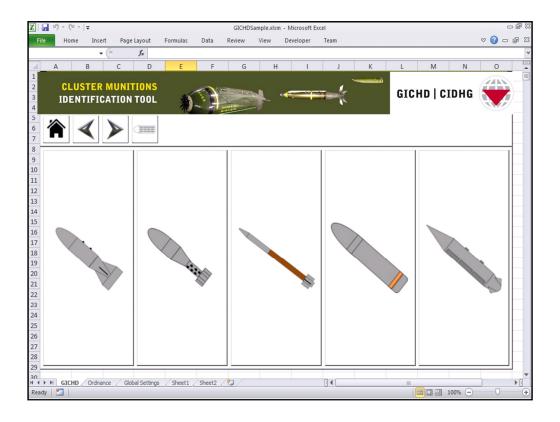
Thumbnail screen. Displays a view of the CM, together with designation. In this search, many cluster bombs share the same container, but contain different payloads



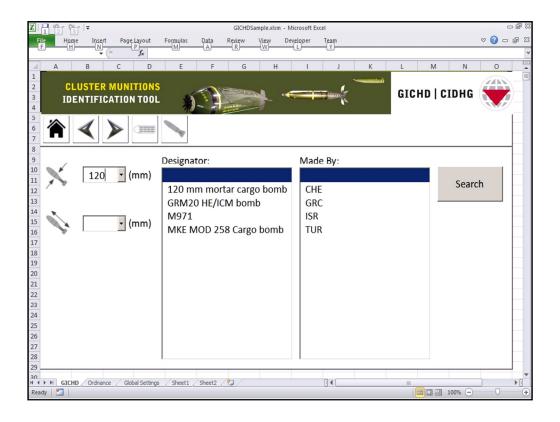
Results screen. Displays and image and thumbnails together with the designation, type and number of SM, diameter, length, country of origin, weight and remarks. Note also the breadcrumb trail just below the banner, which shows the current location and allows navigation to other screens. Most importantly, at the bottom left of the screen is an indication of whether or not the munition is prohibited under the terms of the CCM.



Results screen. Clicking on a thumbnail changes the main image



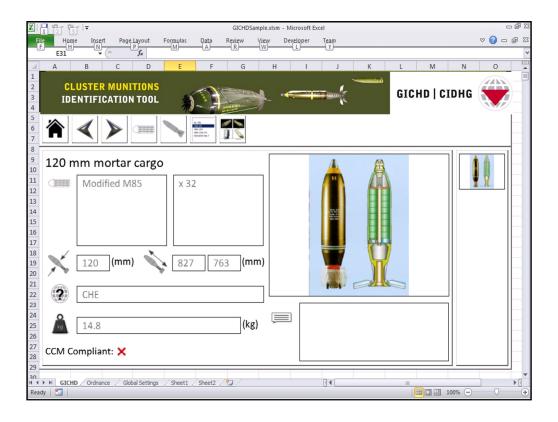
In this search, a mortar is selected



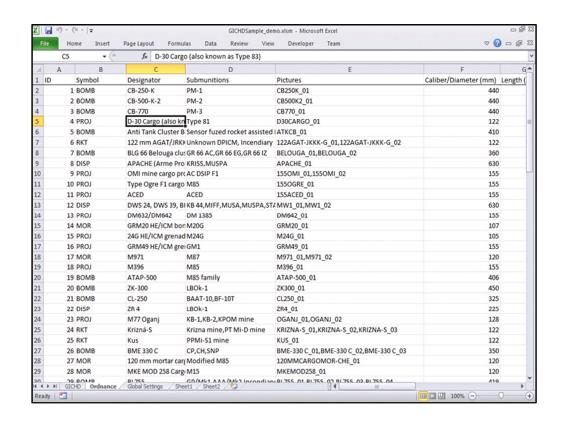
Here is a search on calibre of 120 mm



Thumbnails from this search



Results from the search. Note the two length figures displayed – maximum and minimum, in this case referring to length fuzed and unfuzed.





The GICHD would like to thank the governments of **Australia**, **Belgium**, **France**, **Norway**, **Sweden** for supporting this project with the provision of technical data on cluster munitions and to **Switzerland** for supporting this project financially.

The GICHD would also like to thank the following organisations and companies for their assistance in this project: Ballard Chalmers, Fenix Insight, Golden West Humanitarian Foundation, Fort and Human Rights Watch.