

MERKURY Mobile Ammunition Disassembly Plant



MERKURY is designed for disassembly of integrated artillery ammunition - caliber 37-100 mm and artillery ammunition of separate loading - caliber 122-155 mm.

The installation consists of a few containers.

The mobile ammunition disassembly plant incorporates the following technological operations

- unpacking and rough cleaning of the ammunition rounds
- simultaneous removal of fuze and primer screws (defusing/depriming operation)
- pull-apart of projectile and cartridge case
- removal of gun propellant grains and black powder igniters
- TNT melt-out by indirect steam heating (autoclaving)

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The boxes with the ammunition on pallets are brought by forklifts to the first container, where the ammunition is loaded on the conveyor for visual inspection, degreasing and rough cleaning - only elements essential for process safety.



Afterwards the cartridges are transported on the conveyor to the second container for automatic de-fuzing and de-priming.

This extremely dangerous process is carried out in the explosion-resistant compartment behind armoured shield and is controlled by operators on the monitor. Initiators, after removing, are stored in the armoured, explosion-proof depot.

The ammunition moves on the conveyor to the third container where horizontal pull-apart machine is installed to separate projectile/cartridge case containing powder.



Separated projectiles are passed to container melt-out installation where de-laboration follows by means of hot steam.

Cartridge cases are transported to two containers for removal of the gun propellant grains and black powder igniters.



Containers are separated by so called „fire wall" which prevents spreading the effects of eventual powder or explosive ignition.

Both containers are constructed to release safely the flames through the side walls. The door is fitted with reels which prevent blocking in case of emergency.

Installation capacity: 45 60 pcs/h (including TNT melt-out).