CLAIMS

1. An ammunition management system, comprising:

a rotatable ammunition magazine comprising ammunition,

a breech casing,

an ammunition feed device configured to provide mixed ammunition to an automatic cannon,

a drive device configured to drive the ammunition magazine via a chain drive mechanism disposed in the ammunition magazine, and

a decoupling device configured to engage and disengage the ammunition magazine with respect to the ammunition feed device, so that ammunition is movable between different positions in the ammunition magazine, via an alternating process comprising: feeding of ammunition from the ammunition magazine to the ammunition feed device, disengagement of the ammunition magazine, rotation of the ammunition magazine, engagement of the ammunition magazine, and feedback of ammunition from the ammunition feed device to the ammunition magazine.

2. The ammunition management system according to claim 1, wherein the ammunition magazine is rotatably disposed on a bottom side of the breech casing in a vertical direction via two front rotation shafts and two rear bolts, and via two handles, one on either side of the ammunition magazine, with which the ammunition magazine can be lowered from a tilted-up position into a tilted-down position during servicing or during emptying of the magazine.

3. The ammunition management system according to claim 1, further comprising:

at least two separate chains configured to drive the ammunition magazine,

a system of drive shafts and chain wheels configured to synchronize the at least two chains with one another, wherein the drive shafts and chain wheels distribute a drive force between the at least two chains and ensure that the at least two chains are always synchronized with one another.

4. The ammunition management system according to claim 3, further comprising:

a chain-adjusting mechanism configured to manually adjust the at least two chains, the chain-adjusting mechanism comprising adjusting screws connected to raisable and lowerable chain holders on end walls arranged such that, when a chain holder is adjusted upwards in a height direction, pretension in the chain increases and, when a chain holder is adjusted downwards in the height direction, the pretension decreases.

5. The ammunition management system according to claim 1, wherein the ammunition magazine comprises a hatch for manual feed-in and feed-out of ammunition to the ammunition magazine.

6. The ammunition management system according to claim 1, wherein the ammunition magazine comprises an external angle encoder configured to verify a position of the ammunition in the ammunition magazine, wherein the angle encoder is mounted on one of drive shafts of the ammunition magazine via a flexible damping device in order to minimize an effect of shocks or vibrations.

7. The ammunition management system according to claim 1, further comprising:

a coupling shaft configured to connect the ammunition magazine to the ammunition feed device, the coupling shaft having a square cross section, thereby ensuring that the magazine is correctly connected to the ammunition feed device.

8. A method for sorting mixed ammunition in an ammunition management system, comprising a rotatable ammunition magazine, an ammunition feed device, a breech casing and a decoupling device for decoupling the ammunition feed device from the ammunition magazine, the method comprising:

feeding of ammunition from the ammunition magazine to the ammunition feed device;

decoupling of the ammunition magazine from the ammunition feed device via the decoupling device;

rotation of the ammunition magazine into a new position;

coupling of the ammunition magazine with the ammunition feed device, and

feeding of ammunition from the ammunition feed device into the new position in the ammunition magazine,

repeating the feeding, decoupling, rotation, coupling and feeding until all the ammunition has been sorted into its predetermined positions.