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Ola Tronrud founded Tronrud Engineering AS in 1977. Since then, the company has grown vigorously. One of the company's main areas of business – and one in which it has a great deal of experience – is defence equipment and services for the armed forces. Tronrud Engineering's employment of former maintenance officers from the Norwegian Armed Forces' technical crews makes up over 10% of its staff.

Weapon Security Locks

The small sizes of the security locks allow the weapons to stay assembled when inserted. The locks' shapes are similar to the heads of the rifle bolts, and lock into position according to the same principles as the respective rifle bolts. The lock with the yellow indicator tag is designated for Heckler Koch (H&K) weapons; the slightly smaller circular lock is for Colt C7 and similar Colt weapons. (The lower picture shows the H&K MP5 locked and secured.)



NM 192F1

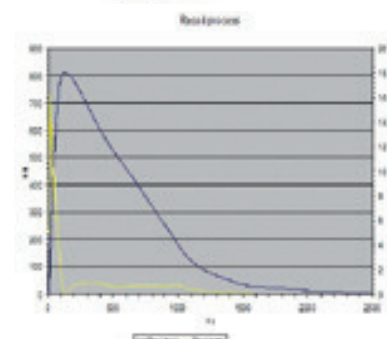
The NM 192F1 (NATO stock #: 1320-25-147-4877) is a 155-mm inert shell, designed for internal ballistics analysis. Due to its high drag, the NM 192F1 is suitable for heavy-duty firing in short firing ranges – e.g. for weapon qualification after maintenance.



Recoil Process Data Logger for CVs

The data processing unit (DPU) stores a CSV file for each recoil process. The diagram below is extracted from such a CSV file. The CSV files in the DPU are easily accessible by viewing them with, or downloading them to, a laptop computer or PDA. The Recoil Process Data Logger's (RPDL) further security measures include the completion of a CV's fire control system.

The RPDL's NATO stock # is 1025-25-151-6294.



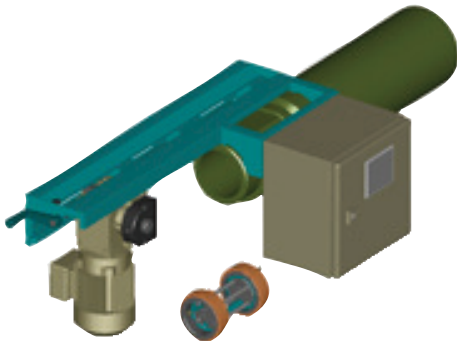
Automatic Bore Cleaner

Tronrud Engineering has developed an Automatic Bore Cleaner (ABC) for the Norwegian Army. The ABC works both fast (>300mm/sec) and quietly (<70dB). The system works unattended while the Technical Crew is attending to other tasks.

The ABC can save a parametric set-up for several CVs and barrels to be selected when needed. For each CV set-up the operator can initiate the following programmes:

- Oiling
- Complete barrel cleaning programme
- Chamber cleaning programme
- Intensive barrel cleaning within a specified area in the barrel

The ABC can be mounted in a matter of minutes without the use of any tools. The Leopard 2 version of the ABC has the NATO stock #: 4933-25-152-4993.



Ring Mount Stand

Tronrud Engineering has designed a ring mount stand (NATO stock #: 2510-25-151-6395) adaptable to all kinds of Light Utility Vehicles (LUVs). The photo shows the stand on an ISAF vehicle with the ring mount, soft mount and the 12.7 mm machine gun. From this configuration the LUV is ready for helicopter deployment in just a couple of minutes by dismantling the soft mount and tilting the top of the stand and the ring mount upside down.

FalconEye

The FalconEye (NATO stock #: 6230-25-149-0749) is a powerful torch/flashlight developed specially for the professional market. The FalconEye is used by various armed forces, police forces, anti-terror forces, fire-fighters, etc.



FalconEye Bracket for Soft Mount

Tronrud Engineering has designed a bracket for rapidly attaching the FalconEye torch/flashlight to Vinghøg's soft mount for 12.7-mm machine guns. The combination of visible light and firepower has a constructive effect on forces which represent a danger to peacekeeping forces. Norwegian troops deployed in Afghanistan use such a configuration.

The FalconEye bracket is to be assigned a NATO stock number in the future.



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