

SHOCK OR ACCELERATION LOAD DAMAGE ON ANTI TANK MINES

M. Held

*Hemaconsulting GmbH,
Pfarrer Meierstr. 8, 86561 ARESING,
Germany*

Anti tank mines create a strong shock wave into the target and the integrated impulse give a momentum, which leads to extreme acceleration of the target.

Now the question arises, is the damage in and on the vehicles mainly caused by shock or the acceleration force.

It will be presented the diagnostic arrangements to get the global impulse, the impulse-profile, the time distance history and from this the velocity and the acceleration of the bulge in a belly plate and to differentiate the damage caused by the shock plus the acceleration in comparison to shock alone without any acceleration.

The achieved results will be discussed in great details.