

## **SUMMARY INFORMATION ON NEW FINDINGS OF DOCTORAL THESIS**

**Thesis title:** *Investigating influence parameters of two automatic firing system on motion of 37mm twin anti-aircraft gun type 65 while firing.*

**Ph.D student:** Mai Anh Quang

**Major:** Mechanical engineering

**Code:** 9.52.01.01

**Supervisor:** 1. Assoc. Prof, Ph.D. Dao Van Doan

### **SUMMARY OF NEW FINDINGS OF THE THESIS**

1. Built to physical and mathematical model for mechanical system of 37mm twin anti-aircraft gun type 65 with new findings such as considering to deformate of elastic ground, elastic deformation of elevating and traversing mechanisms, two automatic firing system is considered two bodies which have independent mass.

2. Studied and assessed the affect of parameters of two automatic firing system on motion of 37mm twin anti-aircraft gun type 65 while firing on elastic ground such as: the gap between the throttling ring and the control rod, the stiffness of recuperator spring, the amount of oil shortage in recoil mechanism, parameters of firing mechanism, the deformation of elastic ground and the stiffness of elevating - traversing mechanisms.

*Hanoi, March 2020*

**Supervisor**

**Ph. D Student**

**Assoc. Prof, Ph.D. Dao Van Doan**

**Mai Anh Quang**