

Equipment for tension control of ropes of a multiple-rope hoist comprises a frequency sensor with n (according to the number of controlled ropes) sensors, which are installed near the ropes, which are controlled at a distance L_1 , in which for provision of a continuous tension control of ropes during hoist operation are used following units: metal detector, information processing unit with a non-volatile memory, signal recording unit, display unit, and in n outputs of a metal detector is connected one of n sensors of a metal detector mounted at a distance $L \geq L_1$ from a controlled rope, each of n outputs of a metal detector is connected to one of n inputs of a processing unit, the first n outputs of a processing unit, which generate the signals are proportional to the frequency (tension) of oscillations of each of n controlled ropes are connected to a recorder, $n + 1$ output of a processing unit is connected to a display unit, and $n + 2$ output of a processing unit is connected (if necessary) with a PC.