

1. Зробіть переклад українською поданого тексту авіаційної спрямованості:

The undercarriage, as a major component, creates a considerable amount of drag in its extended position during flight. Therefore, its retraction within the aircraft mould lines is necessary to minimize drag. Evolution shows that early designs of a tail-dragging type of undercarriage virtually disappeared and have been replaced by the nose-wheel tricycle type. It is interesting that the first nose wheel design undercarriage appeared in 1908 on a Curtiss aircraft. The blowout of tires during takeoff and landing is dangerous; the Concorde crash due to a tire bursting is extremely rare but designers must learn from that situation.

In the past, aircraft manufacturers handled the undercarriage design in a vertically integrated factory setup. Today, its complexity has created specialized organizations (e.g., Messier of France and Dowty of the United Kingdom) that are dedicated to undercarriage design, thereby making its management and integration more efficient and resulting in better designs. However, for smaller aircraft in the class of club and private use, manufacturers can make their own undercarriages, and most of them are of the fixed type.

2. Заповніть вільні місця в словах, перекладіть речення:

1. After takeoff, the landing gear is retracted into the f.....e or wings and out of the a.....m.
2. On very light, slow aircraft, the extra weight that accompanies a r.....e landing gear is more of a detriment than the drag caused by the f....d gear.
3. Wheels and t....s are designed specifically for aviation use and have unique o.....g characteristics.
4. To aid with the potentially high impact of landing, most landing gear have a means of either a.....g shock or accepting shock and distributing it so that the s.....e is not damaged.
5. Main gear that r.....t into the fuselage are only e.....d when landing on the ground or a runway. This type of amphibious aircraft is sometimes called a flying b....t.
6. There are two basic configurations of airplane landing gear: c.....l gear or tail wheel gear and the t.....e gear.
7. Often this tail wheel is able to be s.....d by rigging c.....s attached to the rudder pedals.
8. A ground l.....p is when the tail of the aircraft swings around and comes forward of the n.....e of the aircraft.
9. The tail wheel is a..t of the center of g.....y.

10. With the two strong main gear forward providing s.....y and directional control during takeoff roll, the lightweight tail wheel does little more than keep the aft end of the fuselage from s.....g the ground.

3. Перекласти подані терміни українською:

redundant

spindle

short runway length

steering mechanism

shaft

brakes

bogey(bogie) system

reliability

telescopic strut

paved runway