

Race for high-speed helicopter flight

Eurocopter's X3 hybrid prototype – a helicopter with wings – promises to change the aviation world, combining the speed of a turboprop-powered aircraft and the full hover-flight capabilities of a helicopter

Conventional tail assembly – no tail rotor

Test flight achievements

Cruising speed: 430km/h
Rate of climb: 1,525m per min
Bank angle: 80%

Engines: Two Rolls-Royce Turbomeca RTM322 turboshaft (1,693kW) power five-bladed rotor and twin propellers on wings

 **eurocopter**
an EADS Company

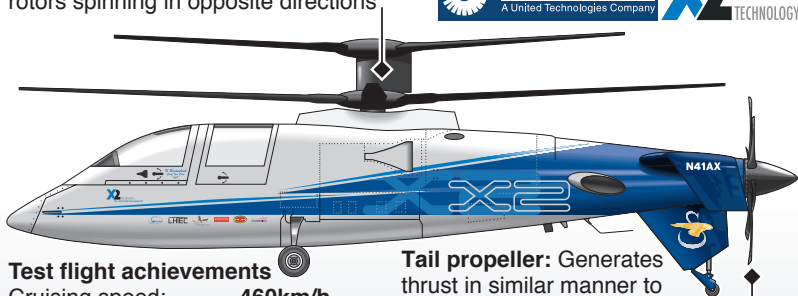
Wings contribute 40% of lift

Sikorsky's X2 prototype: Uses coaxial rotors spinning in opposite directions



Sikorsky
A United Technologies Company

X2 TECHNOLOGY



Test flight achievements

Cruising speed: 460km/h
Shallow dive: 480km/h

Tail propeller: Generates thrust in similar manner to fixed-wing aircraft

Sikorsky X2 (top speed, level-flight) 463km/h September 15, 2010

Eurocopter X3 430km/h May 12, 2011

World speed record 400km/h

Civil helicopter 278km/h

