



VFR HeliSAS®

Autopilot and Stability Augmentation System
for the Bell 505

*HeliSAS is Patented Technology. Patent number US 7,108,232

Genesys Aerosystems HeliSAS® Autopilot and Stability Augmentation System

Working all the time, so you don't have to

Genesys Aerosystems' VFR Helicopter Autopilot and Stability Augmentation System (HeliSAS) is the leading autopilot certified for light and medium rotorcraft. This affordable system greatly improves safety, dramatically reduces pilot workload, and provides unprecedented levels of control and confidence in the cockpit, especially in inadvertent IMC conditions. HeliSAS delivers life-saving technology, backed by responsive personalized service.

Designed to be on all the time, HeliSAS, helps return the helicopter back to straight and level in the event it is inadvertently flown into an unusual attitude or if a pilot becomes disoriented due to a loss of visual references. HeliSAS also features two-axis (optional three-axis) autopilot capabilities, such as lateral (GPS, VOR and LOC) and vertical modes (GPS, VS and ALT). Combining both stability and autopilot functions leads to increased pilot confidence to focus on other tasks.

Envelope Protection & Alerting

In addition to SAS, HeliSAS has a low and high airspeed protection feature included in the ALT, SPD and VRT modes. If airspeed decreases below 50 KIAS, the aircraft will pitch down to gain airspeed. If the airspeed increases above 133 KIAS, the aircraft will pitch up to reduce airspeed. Upon recovery in both scenarios the autopilot will resume commands appropriate to the previously set targets (ALT, IAS, G/S).

Automatic recovery to near-level flight

If the helicopter is inadvertently flown to an unusual attitude, releasing the cyclic when the HeliSAS is engaged will automatically return the helicopter to a neutral attitude.

Further, the HeliSAS Autopilot system provides many of the functions found in very heavy, expensive helicopter autopilots, these functions include:

SAS Engages system to provide attitude stabilization at all speeds

HDG HeliSAS will fly to and maintain the heading selected by the heading bug

NAV The active GPS, VOR, or Localizer course will be automatically intercepted and tracked when NAV is engaged

ALT Maintains the current altitude for an indefinite period

VRT Vertical navigation allows automatic flying of ILS glide slope or GPS (approach)

SPD Maintains current indicated airspeed

YD Yaw dampening and coordinated turns (optional)

System Components



VFR HeliSAS®

PRECISE PERFORMANCE.
PROVEN EXPERIENCE.
PERSONALIZED ATTENTION.