

The seat is yours.

The first thing you'll notice upon entering the cockpit is the total absence of analogue back-up instruments. Gripen's cockpit is the first of its kind that is totally digital, and the result is more space for larger and clearer displays.

The basic idea behind Gripen's Human Machine Interface is to show the pilot only what's needed in each situation. This makes it much easier for you as a pilot to handle flight information, combat situations, incoming data link information and other communication.

The Gripen is a true multi-role/swing-role fighter aircraft. It can instantly change roles at the push of a button. The main computer optimizes systems, controls and displays for the new situation or threat. This means that you can switch between, say, reconnaissance and air-to-air roles in just a fraction of a second.

In every respect, the goal is to give you complete confidence and situational awareness. And – thanks to the advanced avionic systems – minimal “sensor to shooter time”.

Comfortable?

The Gripen Human Machine Interface



Hands On Throttle And Stick (HOTAS)

HOTAS is used to fly the fighter and control displays and weapon systems during flight and combat.

Flight Data Display

Provides flight data and system status information about engine, fuel and external stores. It also serves as the Electronic Warfare Display.

Head Up Display

Just look ahead and you'll see flight data, steering commands, aiming information, etc. All superimposed on the outside world at all altitudes.

Up Front Control Panel

Provides the pilot with access to decision support data, navigation data and target acquisition data. It is also the primary communications panel.

Horizontal Situation Display

Directly in front of you, the Horizontal Situation Display provides navigational and tactical mission data superimposed on an electronic map of selectable scale.

Multi Sensor Display

Here you see information from the radar and other sensors. Flight and fire control data are superimposed.

Ready to win the fight?

Adjust the seat. Fasten the 5 point harness and leg restraints. Close and secure the cockpit canopy. You're ready!



1. All powered up

When you enter the cockpit, you bring a small black metal box called the Data Transfer Unit. This is where all your mission data is stored. Just insert it and all necessary data is downloaded. And what's more – when you're on a mission, it will digitally record every sequence and situation for post-mission debriefing.



4. Swing-role – air-to-ground attack

Instantly, you switch roles. Still beyond visual range, you lock the radar on multiple targets and launch your RBS-15 anti-ship missiles. Mission accomplished, and you return to your group. Depending on which missiles you carry, the next mission could be a precision-guided laser bomb attack, or back to air-to-air missiles.



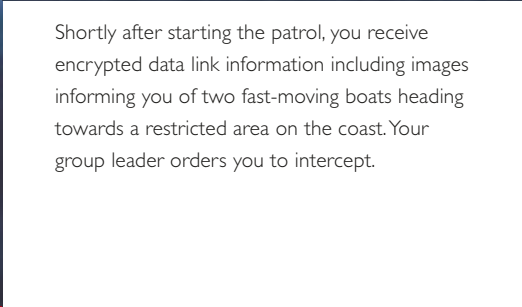
7. Air-to-air refuelling

Mission accomplished. New orders for your group. After air-to-air refueling, you're directed to a small base for rearming and a new mission.



2. Ultra short take-off

Taking off with Gripen is completely unlike take-off in other fighter aircraft. You're airborne after just 500 meters.



3. Mission interrupted

Shortly after starting the patrol, you receive encrypted data link information including images informing you of two fast-moving boats heading towards a restricted area on the coast. Your group leader orders you to intercept.



6. Bandits ahead!

Two fighters are in visual range. You're in for a classic dogfight. But don't worry. Now Gripen will show its superior maneuverability and agility. The HMD helmet gives you the extra edge and full situational awareness. You use your IR-missiles to destroy the targets and still have a cannon as back-up.



5. Hostile fighters on the way

NATO aircraft outside the area supply intelligence that hostile fighters are closing in. Again you take advantage of Gripen's supreme radar capacity, and your group takes out the first incoming aircraft with beyond-visual-range air-to-air missiles.



8. Landing and 10 minute turnaround

You're cruising in for a landing, but instead of your main base, you're descending towards a partially damaged forward operating base. Narrow and short – but no problem for Gripen. 400 meters after touching down, your aircraft stops without using parachutes or hooks. Good job! Now it's time for your team on the ground – the flight mechanics. There are only five of them, but they're done in less than 10 minutes.



9. Gripen is ready for the next mission. Are you?

It's time...

The Wings of Our Nations.



Gripen is the first of the new generation, multi-role combat aircraft to enter service. Using the latest available technology it is capable of performing an extensive range of air-to-air and air-to-surface operational missions and employing the latest weapons. Gripen is designed to meet the demands of current and future threats, while at the same time meeting strict requirements for flight safety, reliability, training efficiency and low operating costs. Gripen is in service with the Swedish, Czech Republic and Hungarian Air Forces and has also been ordered by the South African Air Force. The UK Empire Test Pilots' School (ETPS) is operating Gripen as its advanced fast jet platform for test pilots worldwide.

GRIPEN
The Wings of Your Nation

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Have you got what it takes?

Your mission:

Gripen is the first multi-role/swing-role latest generation fighter to enter service. You've already heard about its combat effectiveness, mission flexibility, survivability and flight safety.

We could line up convincing facts for hours, but instead, let's get a taste of the real thing. Why not take a pilot's-eye view of Gripen?

We're offering you the chance to experience what it's like to be a Gripen pilot on a mission. So pull on your Anti-G Suit and get ready for some action!

Here's the scenario:

Your group will patrol Sector Zebra, including a long, sparsely populated coastline, at a patrol altitude of 35,000 ft and an average speed of Mach 0.9. We have received intelligence reports of unidentified naval and airborne movements just outside our territorial limits. Your Gripen will carry air-to-ground and air-to-air missiles, and the mission plan includes air-to-air refueling. All your flight data will be downloaded digitally, and take-off is in five minutes. Questions?

Your equipment:

The Gripen fighter is equipped with the latest world-leading technology, and so are you. Here's some of the gear you'll need for your first-ever mission in the Gripen.

Flight Suit
The Flight Suit is your basic outfit. When in flight, it's always complemented by the Flight Jacket, the Anti-G Suit and gloves.

Flight Jacket and Anti-G Suit
The Flight Jacket and Anti-G Suit are tailor-made for each individual pilot, and are vital to your protection in the event you have to eject. An important feature of your Flight Jacket is the chest bladder, which automatically balances pressure. The Flight Jacket also functions as a life vest and features an emergency transmitter that is automatically activated at 12G (or manually if needed). The signals will be picked up by teams in the surrounding area so the pilot can be rescued.

Survival Pack
Attached to the Flight Jacket is a Survival Pack, placed in your ejection seat. The Survival Pack contains equipment such as an inflatable lifeboat and clothing. The Anti-G Suit holds a medkit. The exact items included are subject to your nation's requirements.



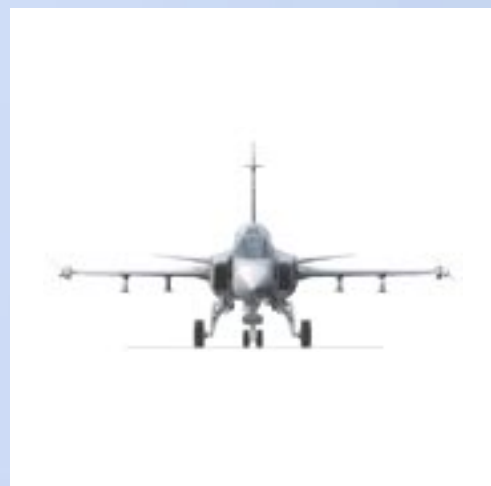
Helmet Mounted Display (HMD)
The integrated Helmet Mounted Display provides real-time data superimposed right in front of your eyes. No matter where you turn your head, you've got full control and information on flight parameters, sensor data, target cueing and weapon status. The HMD also features an integrated chemical/biological respirator and night vision camera options.



The Single Seat Gripen

Dimensions	
Span (incl. launchers)	8.4 m
Length (excl. pitot tube)	14.1 m
Height overall	4.5 m
Wheel track	2.4 m
Wheel base	5.2 m

Weight	
Empty weight	6.8 metric tons
Max take-off weight	14.0 metric tons



The Two Seat Gripen

Dimensions	
Span (incl. launchers)	8.4 m
Length (excl. pitot tube)	14.8 m
Height overall	4.5 m
Wheel track	2.4 m
Wheel base	5.9 m

Weight	
Empty weight	7.1 metric tons
Max take-off weight	14.0 metric tons



Principal features of Gripen

- Netcentric Fighter: A truly Network Centric new generation multi-role fighter with the world's most highly developed secure and multi-frequency data link, providing total situational awareness for the pilot in all roles.
- Superior Sensor Fusion: A fully integrated avionic mission system operating on five 1553B digital data bus highways. This provides total sensor fusion resulting in enhanced combat capability guaranteeing precision delivery of smart weapons.
- Smart Digital Cockpit: An advanced fully digital cockpit layout with 3 large color, Multi-Functional Displays (MFD) and Hands-On-Throttle-And-Stick (HOTAS) provide the pilot with a superior combat advantage. Don't need, don't show.
- See First – Kill First: A combination of low radar, IR and visual design features, along with the long range Ericsson PS05 multi-mode radar and sensor fusion, including world leading new generation weapon integration, ensures a high kill ratio in long range engagements.
- Outstanding Agility: The world's most agile fighter for close combat. A combination of advanced aerodynamic layout utilising a combined close-coupled canard – delta configuration and a triplex, digital fly-by-wire Flight Control System (FCS) leads to a winning Dog-Fight capability.
- High Operational Tempo: Gripen's high operational availability, rapid turnaround and minimal support requirements lead to sustained high sortie rates giving Commanders the ability to meet the most demanding operations with minimum resources.
- Affordability: Gripen achieves the lowest operating cost of any fighter currently in operational service. This is accomplished by combining advanced system design, high technology modern components and the highly reliable Volvo RM12 engine.
- Future development: The Gripen is built to be adaptable to the changing threats and operational requirements that a modern air force faces. Many Gripen features are implemented in software. This means that growth and modification are much easier to design and implement. In most cases costly hardware changes can be avoided.