

# 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



1

Hands On Throttle

And Stick (HOTAS)

HOTAS is used to

fly the fighter

and control

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.

on the outside world

Up Front

Control Panel

Provides the pilot

with access to

data, navigation data

and target acquisition

data. It is also the

primary communica-

tions 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.



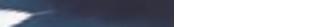
2. Takeoff take-off

Taking off with Gripen is completely unlike taking off in other fighter aircraft. You can be mere feet 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.



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.



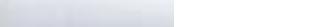
5. Swing-role on the way

Now a threat has been spotted outside the area. You quickly intercept the threat and destroy it. You take advantage of Gripen's superior maneuverability and agility. The HD helmet gives you the extra edge and full situational awareness. You use your IR missiles to destroy the target and still have a cannon back-up.



6. Bandit 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 HD helmet gives you the extra edge and full situational awareness. You use your IR missiles to destroy the target and still have a cannon back-up.



7. Air-to-air refuelling

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



8. Landing and 0 minute turnaround

You're requesting for a landing, but instead of your main base, you're descending towards a partially damaged forward operating base. You land and short – no problem for Gripen. 400 meters after touching down, your craft stops without using any brakes or hooks. Good job!

Now it's time for you to return to 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?



**GRIPEN**  
The Wings of Your Nation

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**The Wings of Our Nations.**

**Have you got what it takes?**

**GRIPEN**

**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 Sweden, including a long, sparsely populated coastline at a patrol altitude of 35,000 ft and a average speed of Mach 0.9. You've received intelligence reports of unidentified naval and airborne movements just outside our territorial limits. Your Gripen will fly air-to-ground and air-to-air missiles, and the mission plan includes air-to-air refueling. All you flight data will be provided digitally and take off 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, targeting and weapon status. The HMD also features an integrated chemical/biological respirator and night vision camera option.



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#### Principal features of Gripen

- Netcentric Fighter: A truly Network Centric new generation multi-role fighter with the world's most highly developed 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.

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