

Specifications: JAS 39 Gripen

Designation:	JAS-39A/B	JAS-39C/D	JAS-39E/F
Name:	Gripen	Gripen	Gripen NG
Manufacturer:	Saab	Saab	Saab
Category/Type:	Multirole Fighter	Multirole Fighter	Multirole Fighter
Crew:	1/2	1/2	1/2
IOC:	1997	2005	2018 (anticipated)
Dimensions and Weights			
Length:	A: 46 ft. 3 in. (14.1m)	C: 46 ft. 3 in. (14.1m)	E: 49 ft. 10 in. (15.2m)
	B: 48 ft. 5 in. (14.8m)	D: 48 ft. 5 in. (14.8m)	
Wingspan:	27 ft. 7 in. (8.4m)	27 ft. 7 in. (8.4m)	28 ft. 3 in. (8.6m)
Height:	14 ft. 9 in. (4.5m)	14 ft. 9 in. (4.5m)	14 ft. 9 in. (4.5m)
Wing Area:	323 ft.2 (30m ²)	323 ft.2 (30m ²)	334 ft.2 (31m ²)
Weight (empty)	A: 14,600 lb. (6,600 kg)	C: 15,000 lb. (6,800 kg.)	E: 17,600 lb. (8,000 kg)
	B: 15,650 lb. (7,100 kg)		
Weight (max take-off)	28,650 lb. (13,000 kg)	30,900 lb. (14,000kg)	36,400 lb. (16,500kg)
Fuel Capacity (Internal):	> 5,000 lb. (2,270kg)	> 5,000 lb. (2,270kg)	7,500 lb. (3,400kg)
Fuel Capacity (External)	3 x 300-gal drop tanks - 6,030 lb. (2,741 kg)	3 x 300-gal drop tanks - 6,030 lb. (2,741 kg)	2 x 450-gal and 1 x 300-gal drop Tanks - 8,040 lb. (3,655 kg.)
Fuel Capacity (Max Total)	> 11,030 lb. (5,009 kg)	> 11,030 lb. (5,009 kg)	>15,440 lb. (7,018 kg)
Performance			
Engine(s):	Volvo Aero Corporation RM12	Volvo Aero Corporation RM12	GE F414-GE-39E
Thrust:	18,100 lb. (80.5 kN)	18,100 lb. (80.5 kN)	22,000 lb. (98 kN)
	12,140 lb. (54 kN) without afterburner	12,140 lb. (54 kN) without afterburner	14,400 lb. (64 kN) without afterburner
Max Speed:	Mach 1+	Mach 1+	Mach 2
Max Speed without Afterburner:			Mach 1.25
Service Ceiling:	52,500 ft. (16,000m)	52,500 ft. (16,000m)	>52,500 ft. (16,000m)
Range:			
Ferry Range:	1,864 mi. (3,000 km)	1,864 mi. (3,000 km)	2,485 mi. (4000 km)
Combat Radius:	approx. 497 mi. (800 km)		Air-to-ground: 932 mi. (1,500 km)
			Combat Air Patrol, 2 hrs. on station: 559 mi. (900km)
G-limit	+9/-3	+9/-3	+9/-3
Wing Loading:			
Thrust/Wt:			
Weapons			
Cannon:	A: Mauer BK27 27mm cannon	C: Mauer BK27 27mm cannon	Mauer BK27 27mm cannon
	B: No internal cannon	D: No internal cannon	
Hardpoints:	7 (1 centerline, 4 underwing, 2 for wingtip SRAAMs)	7 (1 centerline, 4 underwing, 2 for wingtip SRAAMs) 1 for ECM/targeting pod	9 (3 under fuselage, 4 underwing, 2 wingtip for SRAAMs) + 1 for ECM/targeting pod
Max Stores:		11,023 (5,000kg)	13,227 lb. (6000kg)
Weapons Compatibility:	AIM-9L Sidewinder, Mica	AIM-9 Sidewinder, Python 4/5, A-Darter, IRIS-T	AIM-9X Sidewinder, AIM-132 AS-RAAM, Python 4/5, A-Darter, IRIS-T,
	AIM-120 AMRAAM	AIM-120 AMRAAM, Mica, Skyflash, Derby, R-Darter, Meteor (2015)	AIM-120 AMRAAM, R-Darter, Derby, Meteor (2015)
	Mk82/83/84 General Purpose bombs	Mk82/83/84 Genral Purpose Bombs	Mk82/83/84 General Purpose Bombs

Source: Aviation Week Intelligence Network

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prepared by Dan Katz

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	DWS-39 Munitions Dispenser	Paveway II (GBU-10/12/16), Paveway III (GBU-22/24), Lizard II/III Laser-guided Bombs	Paveway II (GBU-10/12/16), Paveway III (GBU-22/24), Lizard II/III Laser-guided Bombs
		JDAM (GBU-31/32/38) GPS-guided bombs	JDAM (GBU-31/32/38) GPS-guided bombs
		Spice EO/GPS-guided bombs	Spice EO/GPS-guided bombs
		AGM-65 Maverick, Brimstone	AGM-65 Maverick, Brimstone, Dual-mode Brimstone (anticipated)
	AGM-65 Maverick	JSOW (AGM-154); SDB-I (GBU-39)	Enhanced Paveway II (GBU-49) GPS/INS/Laser-guided bombs
	RBS-15 Anti-ship Missile	Taurus KEPD 350	JSOW (AGM-154) SDB-I (GBU-39)
		RBS-15 Anti-ship Missile	Taurus KEPD 350
			RBS15, RBS15F ER Anti-ship Missiles
Typical Armament:		4 x BVRAAM, 2 x SRAAM	2 x PGB, 2 x BVRAAM, 2 x SRAAM, 2 x 450-gal. drop tanks
		2 x AIM-9, 2 x AIM-120, 2 x KEPD 350	
		2 x SRAAM, 4 x PGB, 1 x 300-gal. drop tank, 1 targeting pod	
		6 x SRAAM	
		2 x SRAAM, 2 x RBS-15, 2 x AGM-65, 1 x 300-gal. drop tank	
Avionics			
Radar:	Ericsson PS-05/A Raven	Ericsson PS-05/A Raven	Selex-ES ES-05 Raven
Radar Warning Receiver:	Celius Tech RWR	CeliusTech RWR	Saab EDS RWR, MFS-EW
Electronic Countermeasures	CeliusTech Countermeasures	CeliusTech, later Ericsson Saab Avionics EWS39	Saab EDS, MFS-EW
			Selex-ES Brite Cloud expendable active decoy
			BOQ-X300 ECM Pod
Chaff/Flare Dispensers:	CeliusTech Countermeasures	CeliusTech Countermeasures	Saab EDS Countermeasures
Other Avionics:	FLIR Pod	Rafael Litening III	Selex-ES Infrared Search and Track System (IRST)
		Litening G11 Forward-Looking Infra-red / Laser Designator Pod (FLIR/LDP)	Rafael Litening III
		SPK 39, Saab Modular Reconnaissance Pod System (MRPS), Thales Digital joint Reconnaissance Pod (DJRP), Reccelite	Saab Modular Reconnaissance Pod System (MRPS), Thales Digital joint Reconnaissance Pod (DJRP), Vicon 18/72C, Reccelite
		Helmet Mounted Display (HMD): Thales Guardian for domestic aircraft, BAE Systems Cobra on export aircraft	Cobra Helmet Mounted Display (HMD)
		Link 16	Link 16
			Gripen Tactical Data Link
Cost			
Unit cost:			\$40-60 million estimated

Source: Aviation Week Intelligence Network