

# ARCHIVED REPORT

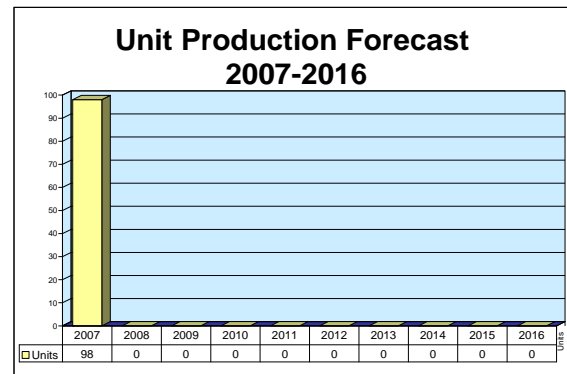
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## Future Infantryman (IdZ) - Archived 10/2008

### Outlook

- Forecast International projects that German Army will buy approximately 98 IdZ systems in 2007
- Production of EADS' consortium-manufactured Infanterist der Zukunft system expected to end in 2007
- With production of IdZ system ending in 2007, Forecast International will archive this report in October 2008



### Orientation

**Description.** The Infanterist der Zukunft (IdZ), or Future Infantryman program, is a German Army venture intended to improve the lethality and survivability of the German foot soldier. Under the IdZ program, weapons, protective equipment, and C<sup>4</sup>I systems are being developed and manufactured to enhance the effectiveness of Germany's infantrymen.

The IdZ consists of multiple systems (a "system of systems"). The focus of this report is on the FIST system as a whole, rather than the individual systems that comprise it.

#### Sponsor

Bundesministerium der Verteidigung  
Stauffenbergstr. 18  
10784 Berlin  
Germany  
Web site: <http://www.bundeswehr.de>

**Status.** In production.

**Application.** Dismounted combat.

**Price Range.** Price is estimated to be \$42,000 per system. Price estimation was arrived at by reviewing a comparable soldier system program, the U.S. Land Warrior program.

### Contractors

#### Prime

<b>Drägerwerk AG</b>	<a href="http://www.draeger.com">http://www.draeger.com</a> , Moislinger Allee 53-55, Lubeck, 23542 Germany, Tel: + 49 (0)451-882-0, Fax: + 49 (0)451-882-2080, Consortium Member
<b>EADS Deutschland GmbH, Division HQ</b>	<a href="http://www.eads.com">http://www.eads.com</a> , PO Box 801109, Munich, 81663 Germany, Tel: + 49 89 607 0, Fax: + 49 89 607 26481, Lead Contractor
<b>ESG Elektroniksystem- und</b>	<a href="http://www.esg-gmbh.de">http://www.esg-gmbh.de</a> , Einsteinstraße 174, München, D-81675 Germany,

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<b>Logistik-GmbH</b>	Tel: + 49 498992160, Fax: + 49 498992162631, Consortium Member
<b>Heckler &amp; Koch GmbH</b>	http://www.heckler-koch.de, PO Box 1329, Oberndorf, 78722 Germany, Tel: + 49 7423 7 90, Fax: + 49 7423 79 2497, Email: infoboard@heckler-koch.de, Consortium Member
<b>Thales</b>	http://www.thalesgroup.com, 45, rue de Villiers, Neuilly-sur-Seine Cedex, 92526 France, Tel: + 33 1 57 77 80 00, Fax: + 33 1 57 77 86 59, Consortium Member
<b>Zeiss-Eltro Optronic GmbH</b>	PO Box 11291, D-73442 Oberkockhen, Oberkock, Germany, Tel: + 49 73 6420 3867, Fax: + 49 73 6420 3855, Consortium Member

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Contractors are invited to submit updated information to Editor, International Contractors, Forecast International, 22 Commerce Road, Newtown, CT 06470, USA; [rich.pettibone@forecast1.com](mailto:rich.pettibone@forecast1.com)

## Technical Data

**Design Features.** One Infanterist der Zukunft (IdZ) system equips 10 soldiers. The following equipment *may* be included in the IdZ system:

- Heckler & Koch G36 5.56mm rifle
- Load-carrying vest
- Eye-protective glasses
- Ballistic and stab protection vest
- C<sup>4</sup>I system
- Helmet-mounted, image-intensifying, night-vision goggles
- Laser light modules for weapon mounting

- Laser range-finding target acquisition binoculars
- Hand-held image-intensifying night vision sight
- Image-intensifying weapon sight
- Hand-held thermal sight
- Thermal weapon sight
- 40mm grenade launcher

Other IdZ equipment that may be used include a 5.56mm Heckler & Koch MG4 light machine gun, a Barrett 12.7mm anti-materiel rifle, a Heckler & Koch MP7 personal defense weapon, and a Panzerfaust 3 anti-tank rocket launcher.

## Program Review

### *Future Infantryman Program Launches in 1997*

With the goal of improving the combat effectiveness of the German dismounted soldier, the German Army launched its Future Infantryman program in 1997. In that year, the German Army awarded a team led by EADS Deutschland GmbH a contract for the experimental phase of the Infanterist der Zukunft program. Phase I evaluated the equipment used by German foot soldiers, and tested the following capabilities:

1. Orientation and navigation by day and night
2. Target acquisition and target survey by day and night
3. Remote sensing and firing
4. Voice control

5. Communications within the section by day and night
6. Target acquisition and indication by day and night
7. Camouflage protection against thermal imagers
8. Protective ability of combat vests
9. Battlefield identification friend-unknown
10. Fighting by day and night
11. Laser pointer
12. Orientation and navigation in HALO/HALO parachute operations
13. Nighttime mobility

### *Development & Production of Demonstrator System Begins*

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In 2000, the EADS team completed the experimental phase of the Future Infantryman program and began developing a Future Infantryman demonstrator system. In April 2002, the EADS team finished assembling the Future Infantryman demonstrator system. Shortly thereafter, the EADS team delivered two Future Infantryman demonstrator systems to the German Army for extensive field testing in Kosovo.

In May 2004, EADS conducted a demonstration of the Future Infantryman system (now known as the Infanterist der Zukunft). During the demonstration, IdZ exchanged data with the German Army's Faust battalion-level battle management.

On July 1, 2004, EADS announced it received a contract from the German Federal Office of Defense

Technology and Procurement to produce and deliver 15 prototype IdZ systems to the German Army. On that same day, EADS delivered the first of these 15 prototypes to the Army Inspector, General Hans-Otto Budde, at the Hammelburg Infantry School. The remaining 14 prototype IdZ systems were delivered to the German Army by November 2004.

### ***EADS Starts Full-rate Production of Future Infantryman System***

In December 2004, the German Federal Office of Defense Technology and Procurement awarded EADS Defence Electronics an order for the full production and delivery of 196 IdZ systems. Forecast International expects all 196 systems to be delivered to the German Army by year-end 2007.

## Funding

The German Infanterist der Zukunft program is funded by the German Army and the team of EADS Deutschland GmbH, Heckler & Koch GmbH, Drägerwerk, Zeiss Optronik GmbH, Thales Communications GmbH, and ESG Elektroniksystem- und Logistik-GmbH. The amount of funding is unknown.

## Contracts/Orders & Options

<u>Contractor</u>	<u>Award (\$ millions)</u>	<u>Date/Description</u>
EADS	12.0	Jul 2004 – German Federal Office of Defence Technology and Procurement order (total value, approximately EUR10 million) for the delivery of 15 IdZ systems.
EADS	93.3	Dec 2004 – German Federal Office of Defense Technology and Procurement order (total value, approximately EUR 70 million) for the delivery of 196 IdZ systems.

## Timetable

<u>Month</u>	<u>Year</u>	<u>Major Development</u>
	1997	German Army awards a team led by EADS Deutschland a contract for the experimental Phase I of the Future Infantryman program
Feb	1999	Phase II testing of Future Infantryman begun
Nov	2000	Phase II testing completed
Dec	2000	EADS team begins developing Future Infantryman demonstrator system
Apr	2002	EADS team finishes assembling Future Infantryman demonstrator system
	2002	EADS team delivers 2 Future Infantryman demonstrator systems to German Army for field trials
Jul	2004	EADS receives a contract from German Federal Office of Defence Technology and Procurement to produce and deliver 15 prototype IdZ systems to German Army
Dec	2004	EADS receives a contract from German Federal Office of Defense Technology and Procurement to produce and deliver 196 IdZ systems to German Army
	2006	IdZ system deliveries to German Army begun
	2007	IdZ system deliveries to German Army end

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## Worldwide Distribution/Inventories

The Infanterist der Zukunft program is an undertaking of the **German Army**.

## Forecast Rationale

The Infanterist der Zukunft (IdZ), or Future Infantryman program, is a German Army endeavor designed to improve the lethality and survivability of the German foot soldier. Under the IdZ program, weapons, protective equipment, and C<sup>4</sup>I systems are being developed and manufactured that will increase the effectiveness of Germany's infantrymen. EADS is the IdZ program's consortium leader.

**98 IdZ Systems to be Delivered**

As indicated by the **Ten-Year Outlook** chart (below), Forecast International projects that the German Army will procure approximately 98 IdZ systems in 2007 to enhance the effectiveness of its foot soldiers.

In December 2004, the EADS Defence Electronics-led consortium won the full-production contract for the Infanterist der Zukunft system. All Idz system

deliveries under this contract are expected to be completed by year-end 2007.

**“Future Soldier – Expanded System”  
(IdZ-ES)**

In September 2006, Rheinmetall Defence announced that the German Bundeswehr had contracted with Rheinmetall to develop an expanded version of the Infanterist der Zukunft. The new system will be called “Future Soldier – Expanded System” (IdZ-ES). Rheinmetall Defence is expected to produce large numbers of the IdZ-ES for the German Bundeswehr starting sometime in 2009.

With production of the original Infanterist der Zukunft ending in 2007, Forecast International will archive this report in October 2008. A new Forecast International report on the German Bundeswehr's “Future Soldier – Expanded System” will be issued sometime in 2008.

## Ten-Year Outlook

ESTIMATED CALENDAR YEAR UNIT PRODUCTION												
Designation or Program	High Confidence					Good Confidence			Speculative			Total
	Thru 2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	
<b>EADS Deutschland GmbH</b>												
<b>Future Infantryman (IdZ) Military &lt;-&gt; Infanterist der Zukunft</b>												
	115	98	0	0	0	0	0	0	0	0	0	98
<b>Total</b>	115	98	0	0	0	0	0	0	0	0	0	98