Part 4



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General

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Space Agencies

Overview (alphabetical order: Part 1)

Argentina National Commission on Space Activities (CONAE)

Australia Commonwealth Scientific and Industrial Research Organization (CSIRO)

Austrian Space Agency

Azerbaijan Azerbaijani National Aerospace Agency (ANASA)

Bangladesh Space Research and Remote Sensing Organization

Belgium Belgian Institute for Space Aeronomy

Brazil Brazilian Space Agency (AEB)

Instituto Nacional de Pesquisas Espaciais (INPE)

Bulgaria Bulgarian Aerospace Agency

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Canada <u>Canadian Space Agency</u> (CSA)

China National Space Administration (CNSA)

Denmark
Europe
Finland
France

Danish Space Research Institute
European Space Agency (ESA)
National Technology Agency (Tekes)
Centre Nationale d' Etudes Spatiales (CNES)

Centre d'Études et de Recherches de Toulouse (CERT)
Office National d'Etudes et de Recherches Aérospatiales (ONERA)

Germany German Aerospace Center (DLR)

Greece National Observatory of Athens - Institute for Space Applications and Remote Sensing

Hungary Hungarian Space Office (preliminary info page)
India Indian Space Research Organisation (ISRO)

Indonesia Lembaga Penerbangan dan Antariksa Nasional (LAPAN)

Iran Space Agency (ISA)

Israel Israel Ministry of Science and Technology

Italy Italian Space Agency (ASI) Source: http://www.spacelawstation.com/worldgov.html#2

Space Agencies

Overview (alphabetical order: Part 2)

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Japan

Gapan Aerospace Exploration Agency (JAXA)
Korea Aerospace Research Institute
National Content of The Part of The P Korea Lebanon National Center for Remote Sensing Netherlands Agency for Aerospace Programs Netherlands

National Aerospace Laboratory(NLR)

Space Research Organization Netherlands (SRON)

Nigeria National Space Research and Development Agency (NASRDA)

Norway Norwegian Space Center

Pakistan Pakistan Space & Upper Atmosphere Research Commission (Suparco) Peru National Commission for Aerospace Research & Development (CONIDA)

Poland Space Research Centre

Portugal National Institute of Industrial Engineering and Technology (INETI)

Romania Romanian Space Agency

Russian Aviation & Space Agency (RKA) Russia

Saudi Arabia Space Research Institute (SRI)

Spain Instituto Nacional de Técnica Aeroespacial (INTA)

Swedish National Space Board (SNSB) Sweden

Swedish Space Corporation (SSC)
Swedish Institute of Space Physics (IRF)

Switzerland Swiss Space Office (SSO)

Taiwan National Space Program Office (NSPO)

Thailand Office of the National Research Council of Thailand

Ukraine National Space Agency of Ukraine (NSAU) UK

National Aeronautics and Space Administration (NASA) and about 30 smaller organization

Space Companies

Top 40 Overview (Part 1)



Rank	Satellite Operator	2003 Space Sales	2002 Space Sales	Headquarters	Rank Last Year
1	Boeing Co.	\$9,358	\$9,000	U.S.	1
2	Lockheed Martin Corp.	\$8,700	\$7,500	U.S.	2
3	EADS	\$3,013	\$2,306	Netherlands	5
4	Raytheon	\$2,978	\$3,122	U.S.	3
5	Northrop Grumman Corp.	\$2,800	\$2,700	U.S.	4
6	Science Applications International Corp.	\$1,750	\$1,550	U.S.	NR
7	United Space Alliance	\$1,684	\$1,690	U.S.	NR
8	Alcatel	\$1,506	\$1,362	France	7
9	The DirecTV Group	\$1,322	\$1,170	U.S.	9
10	<u>ATK</u>	\$1,134	\$1,051	U.S.	8
11	Mitsubishi Electric Corp.	\$1,018	\$835	Japan	11
12	Honeywell Inc.	\$775	\$741	U.S.	12
13	Arianespace SA	\$702	\$1,529	France	6
14	Alenia Spazio	\$637	\$525	Italy	16
15	L-3 Communications	\$619	\$405	U.S.	21
16	Orbital Sciences Corp.	\$582	\$552	U.S.	14
17	Trimble Navigation Ltd.	\$541	\$467	U.S.	17
18	Computer Sciences Corp.	\$500	\$410	U.S.	20
19	Ball Aerospace & Technologies Corp.	\$476	\$448	U.S.	18
20	Loral Space & Communications	\$474	\$853	U.S.	10

Source: http://www.space.com/spacenews/top50_2004.html

Space CompaniesTop 40 Overview (Part 2)



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Rank	Satellite Operator	2003 Space Sales	2002 Space Sales	Headquarters	Rank Last Year
21	General Dynamics	\$474	\$200	U.S.	26
22	Harris Corp.	\$428	\$404	U.S.	22
23	<u>Snecma</u>	\$421	\$672	France	13
24	United Technologies Corp.	\$415	\$550	U.S.	15
25	Eastman Kodak Co.	\$383	\$250	U.S.	NR
26	ITT Industries Inc.	\$378	\$428	U.S.	19
27	EchoStar Communications Corp.	\$244	\$287	U.S.	25
28	ViaSat Inc.	\$239	\$136	U.S.	29
29	Mitsubishi Heavy Industries Ltd.	\$216	\$353	Japan	24
30	<u>Aerojet</u>	\$213	\$194	U.S.	28
31	Ishikawajima-Harima Heavy Industries Co. Ltd.	\$190	\$122	Japan	33
32	Gilat Satellite Networks Ltd.	\$190	\$209	Israel	27
33	MacDonald Dettwiler and Associates Ltd.	\$190	\$362	Canada	23
34	Swales	\$162	\$157	U.S.	30
35	EMS Technologies	\$126	\$167	U.S.	32
36	MAN Technologie AG	\$121	\$125	Germany	36
37	OHB-System AG	\$121	\$71	Germany	39
38	Jacobs Sverdrup	\$118	\$113	U.S.	NR
20	Goodrigh Corn	\$114	969	11.0	25





