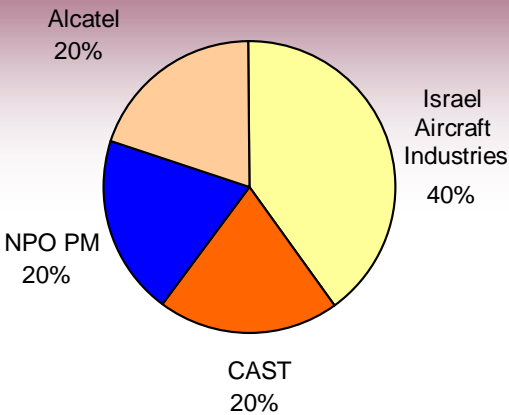




Futron Satellite Manufacturing Report

April 2002

2002 Commercial GEO Communications Satellite Orders, by Manufacturer



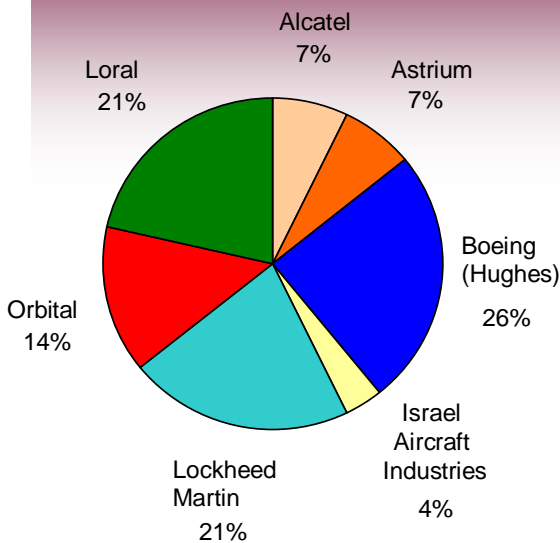
Commercial GEO* Communications Satellite Manufacturer	Announced Procurements	Satellite Name(s)
Israel Aircraft Industries	2	HKSat-1, HKSat-2
Chinese Academy of Space Technology	1	Sinosat 2
Alcatel	1	AMC 23**
NPO PM	1	Vinasat***
Total Orders	5	

*Teledesic ordered 2 NGSO satellites from Alenia Spazio.

**AMC 23 replaces GE 4i, which was awarded in 2000.

***Construction on Vinasat began in March 2002; award may have occurred in 2001.

2001 Commercial GEO Communications Satellite Orders, by Manufacturer



Commercial GEO Communications Satellite Manufacturer	Announced Orders	Satellite Name(s)
Alcatel	2*	StarOne, Apstar VB
Astrium	2	Eutelsat W3A, Amazonas
Boeing (Hughes)	7	E Bird, Galaxy VIII R, NSS 8, Horizons, Hellas-Sat (2)**, Superbird 6
Israel Aircraft Industries	1	Amos 2
Lockheed Martin	6	Cablevision, Nimiq 2, GE 10, GE 11, GE 18, Alpha Space Com**
Orbital	4	Panamsat C-Band (3), Bsat 2C
Space Systems/Loral	6	Apstar V, Telstar 9, DirecTV 7S, Hisdesat (2), MBC
Total Orders	28	

*GE Americom's order for 3 satellites was canceled.

** Order is unconfirmed.

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