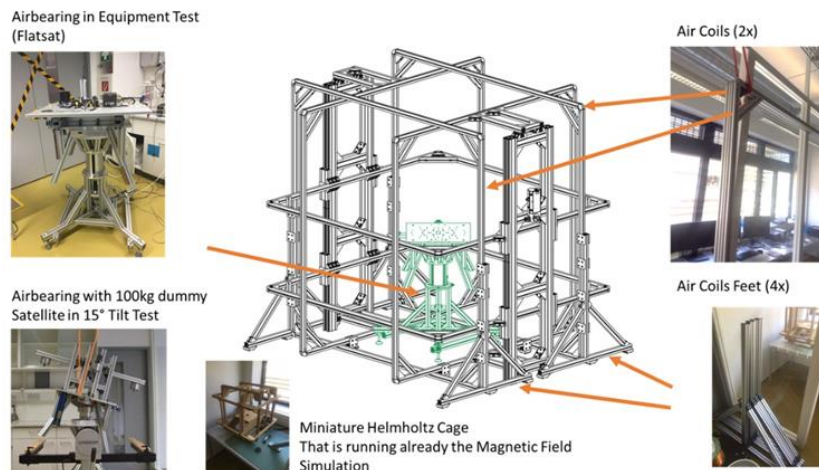![BST - Berlin Space Technologies logo]

ADCS SIMULATOR

The BST ADCS simulator is a tool to design and test the attitude control functionality of a small satellite. The simulator consists of three main parts: Air Bearing Table, Magnetic Field Simulator, Sun Simulator. Additionally BST can offer a GPS simulator, a Star Simulator and a full ADCS simulation suite to complement the package.

BST ADCS Simulator

#	Parameter	Value	Unit	Comment
	Air Bearing Table			
1	Payload Mass	200	kg	Maximum Net Load
2	Payload Size	600x600x800	mm³	Length x Width x Height
3	Disturbance Moment	<1	mNm	
4	Air Bearing Safety System	Yes		
5	Automatic Balancing System	Yes		
	Magnetic Field Simulator			
6	Diameter Helmholtz Cage	>2.3m		Square coils
7	Magnetic Field Power	+/- 200nT		
8	Accuracy in the Centre	1	%	
	Sun Simulator			
9	Azimut Range	360	°	
10	Elevation Range	180	°	
11	Equivalent Sun Power	1.1x		Compared to solar constant
	Optional Items			
12	GPS Simulator			
13	Star Simulator			
14	ADCS Simulation Suite	To support HIL		HIL = Hardware in the loop