

The Saturn System

Mass of Saturn: $568.46 (10^{24}\text{kg})$

Satellite	a (km)	T (d)	e	I ($^\circ$)	$\langle R \rangle$	m (10^{20}kg)
Pan	133,583	0.5750	~ 0	~ 0	10	
Atlas	137,640	0.6019	~ 0	~ 0	*16	
Prometheus	139,350	0.612986	0.0024	0.0	*50	0.0014
Pandora	141,700	0.628804	0.0042	0.0	*42	0.0013
Epimetheus ^c	151,422	0.694590	0.009	0.34	*59	0.0055
Janus ^c	151,472	0.694590	0.007	0.14	*89	0.0198
Mimas	185,520	0.9424218	0.0202	^f 1.53	199	0.385
Enceladus	238,020	1.370218	^f 0.0045	0.02	249	0.73
Tethys	294,660	1.887802	0.0000	^f 1.09	530	6.22
Telesto ^c	294,660	1.887802	~ 0	~ 0	*11	
Calypso ^c	294,660	1.887802	~ 0	~ 0	*10	
Dione	377,400	2.736915	^f 0.0022	0.02	560	10.52
Helene ^c	377,400	2.736915	0.005	0.2	*16	
Rhea	527,040	4.517500	^f 0.0010	0.35	764	23.1
Titan	1,221,850	15.945421	0.0292	0.33	2,575	1345.5
Hyperion	1,481,100	21.276609	^f 0.1042	0.43	*143	
Iapetus	3,561,300	79.330183	0.0283	7.52	718	15.9
Phoebe	12,952,000	-550.48	0.163	177.3	110	