

Fastest rotators [edit]

For a more comprehensive list, see [List of fast rotators \(minor planets\)](#).

This list contains the [fastest-rotating](#) minor planets with a period of less than 100 seconds, or 0.027 hours. Bodies with a highly uncertain period, having a [quality](#) of less than 2, are highlighted in dark-grey. The fastest rotating bodies are all unnumbered [near-Earth objects](#) (NEOs) with a diameter of less than 100 meters (*see table*).

Among the [numbered minor planets](#) with an unambiguous period solution are [\(459872\) 2014 EK₂₄](#), a 60-meter sized stony NEO with a period of 352 seconds, as well as [\(335433\) 2005 UW₁₆₃](#) and [\(60716\) 2000 GD₆₅](#), two [main-belt](#) asteroids, with a diameter of 0.86 and 2.25 kilometers and a period of 1.29 and 1.95 hours, respectively (*see full list*).

#	Minor planet designation	Rotation period		Δmag	Quality (U)	Orbit or family	Spectral type	Diameter (km)	Abs. mag (H)	Refs
		(seconds)	(hours)							
1.	2014 RC	16	0.004389	0.10	n.a.	NEO	S	0.012	26.80	LCDB • MPC
2.	2015 SV₆	18	0.00490	0.74	2	NEO	S	0.009	27.70	LCDB • MPC
3.	2010 JL₈₈	25	0.0068295	0.52	3	NEO	S	0.013	26.80	LCDB • MPC
4.	2017 EK	30	0.0083	0.30	2	NEO	S	0.045	24.10	LCDB • MPC
5.	2010 WA	31	0.0085799	0.22	3	NEO	S	0.003	30.00	LCDB • MPC
6.	2017 UK8	31	0.0086309	1.30	3	NEO	S	0.007	28.20	LCDB • MPC
7.	2016 GE₁	34	0.009438	0.13	2	NEO	S	0.014	26.60	LCDB • MPC
8.	2008 HJ	43	0.01185	0.80	3–	NEO	S	0.021	25.80	LCDB • MPC
9.	2009 TM₈	43	0.012	–	n.a.	NEO	S	0.006	28.40	LCDB • MPC
10.	2015 SU	46	0.0127	0.20	2–	NEO	S	0.025	25.40	LCDB • MPC
11.	2010 SK₁₃	52	0.0144	–	n.a.	NEO	S	0.01	27.40	LCDB • MPC
12.	2009 BF₂	57	0.01593	0.80	3	NEO	S	0.02	25.90	LCDB • MPC
13.	2016 GS₂	66	0.0182725	0.06	1	NEO	S	0.075	23.00	LCDB • MPC
14.	2010 TG₁₉	70	0.0193935	1.10	3	NEO	S	0.049	23.90	LCDB • MPC
15.	2008 WA₁₄	70	0.0195	–	n.a.	NEO	S	0.075	23.00	LCDB • MPC
16.	2007 KE₄	77	0.021408	0.38	3–	NEO	S	0.027	25.20	LCDB • MPC
17.	2000 DO₈	78	0.0217	1.39	3	NEO	S	0.037	24.54	LCDB • MPC
18.	2014 GQ₁₇	78	0.0217	0.08	2–	NEO	S	0.011	27.10	LCDB • MPC
19.	2014 TV	79	0.02190	0.32	2	NEO	S	0.039	24.40	LCDB • MPC
20.	2000 WH₁₀	80	0.02221	0.66	3–	NEO	S	0.094	22.50	LCDB • MPC
21.	2012 HG₂	82	0.0227	–	n.a.	NEO	S	0.012	27.00	LCDB • MPC
22.	2010 TD₅₄	83	0.0229317	0.92	3	NEO	S	0.005	28.90	LCDB • MPC
23.	2010 TS₁₉	83	0.023	–	n.a.	NEO	S	0.022	25.70	LCDB • MPC
24.	2009 UD	84	0.023246	0.66	2+	NEO	S	0.011	27.20	LCDB • MPC
25.	2014 WB₃₆₆	86	0.0238	0.46	2+	NEO	S	0.033	24.80	LCDB • MPC
26.	2015 RF₃₆	90	0.025	0.15	2	NEO	S	0.062	23.40	LCDB • MPC
27.	2015 AK₄₅	93	0.0258	0.24	2	NEO	S	0.016	26.40	LCDB • MPC
28.	2010 XE₁₁	96	0.0265846	0.50	3	NEO	S	0.075	23.00	LCDB • MPC
29.	2000 UK₁₁	96	0.026599	0.28	2	NEO	S	0.026	25.30	LCDB • MPC
30.	2016 RB₁	96	0.02674	0.18	2+	NEO	S	0.007	28.30	LCDB • MPC
31.	2015 CM	96	0.0268	0.53	3–	NEO	S	0.018	26.10	LCDB • MPC
32.	2008 TC₃	97	0.0269409	1.02	3	NEO	F	0.004	30.90	LCDB • MPC