Ю.Л. Войтеховский, Д.Г. Степенщиков

КОМБИНАТОРНАЯ КРИСТАЛЛОМОРФОЛОГИЯ

III. Комбинации куба и октаэдра

Апатиты
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Российская академия наук
Кольский научный центр
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Настоящий каталог продолжает серию изданий, посвященных систематическому перечислению комбинаторных типов реальных кристаллографических простых форм, их характеризации точечными группами симметрии и гранными символами. В нем впервые представлены изображения и описания 77657 комбинаций куба и октаэдра, интересных в первую очередь тем, что эти формы являются преобладающими на кристаллах алмаза. Каталог является фундаментальной основой для реконструкции условий и механизмов образования кубооктаэдрических кристаллов в рамках принципа диссимметрии Кюри.

Издание представляет интерес для кристаллографов, минералогов, широкого круга геологов, математиков, специализирующихся в комбинаторной теории выпуклых полиэдров, и студентов соответствующих специальностей.

Печатается по решению Ученого Совета Геологического института КНЦ РАН и Совета Кольского отделения РМО.

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Предисловие

Настоящий каталог продолжает серию изданий, посвященных систематическому перечислению и характеризации комбинаторного многообразия реальных кристаллографических простых форм и их комбинаций. В работах [2-5, 10] реальная кристаллографическая простая форма определена как любой полиэдр, полученный из граней (идеальной) кристаллографической простой формы, находящихся в стандартной ориентации, но на произвольном расстоянии от начала координат. Иначе говоря, реальная форма получается из идеальной смещением граней вдоль нормалей. Комбинация реальных кристаллографических простых форм определяется очевидным образом. Если фиксировать реальные формы с точностью до комбинаторного типа, т.е. числа, вида и способа сочетания граней, то задача их перечисления для данной идеальной формы или комбинации форм становится в принципе разрешимой.

Теория этого вопроса совершенно не разработана и авторы используют возможности компьютера. У этого подхода есть очевидные плюсы и неочевидный минус, в котором следует признаться. Алгоритм пересчета сводится к пошаговому смещению граней формы вдоль нормалей, описанию результата и его сравнению с уже найденными неповторяющимися формами. В идеале движение граней должно быть непрерывным, что на практике означает “очень маленьким”. На предыдущих примерах выполнена оценка того, как быстро число форм приближается к “истинному” с уменьшением шага. Под истинным по необходимости понимается результат, не меняющийся при пересчетах с меньшим шагом. В этом смысле есть уверенность того, что ранее опубликованные результаты – истинные, т.е. существуют 33 реальных октаэдра, 625 реальных ромбододекаэдров и т.д.

Очевидно, движением граней куба вдоль нормалей можно получить лишь прямоугольный параллелепипед, т.е. в комбинаторном приближении – тот же куб. А сколько существует реальных комбинаций куба с октаэдром? Решение этой задачи оказалось весьма непростым делом даже для современных компьютеров. Полученный нами результат – 77657 – приблизителен по указанной выше причине. Но он вряд ли занижен по сравнению с истинным более чем на несколько десятков форм, и при необходимости будет уточнен в дальнейшем. Мы решаемся опубликовать несовершенный результат еще и потому, что он имеет прямое отношение к проблеме кристалломорфологии алмаза, ведь куб и октаэдр – его наиболее важные формы.

Многообразие форм природы повергает естествоиспытателя в трепет, в особенности тогда, когда упорядочено – иначе оно не может быть понято. Сознанию обязательно нужно “поверить алгеброй гармонию”. Уже этим оправдывается предлагаемый труд. Но даже беглый обзор фундаментальных монографий, в которых приведены зарисовки и фотографии кристаллов алмаза, показывает, что из огромного арсенала возможных форм природа поставляет наиболее симметричные. Этот факт может быть интерпретирован с точки зрения принципа диссимметрии Кюри как результат того, что диссимметризующее влияние среды было слабым. Тем более интересны наиболее диссимметричные формы [1, 6-9]. Предлагаемый вниманию каталог является фундаментальной основой для анализа и интерпретации природных кубооктаэдров на фоне их потенциального комбинаторного разнообразия.

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Введение

Лучшим способом представления полиэдра на сегодня является его изображение. Поэтому основа каталога – следующие далее рисунки. Но чтобы им можно было пользоваться, нужна какая-то систематизация форм. Известные способы их строгого упорядочения формальны, поэтому авторы пошли путем, более удобным для потенциальных пользователей – минералогов и кристаллографов, использовав легко определяемые характеристики полиэдров. Многообразие форм разбито на классы по числу граней, в пределах класса – лексикографически упорядочено по возрастанию гранного символа, в пределах символа – по возрастанию симметрии. Недостатком является то, что и после такой систематизации в некоторых группах остается немалое число форм.

Напомним, что под гранным символом понимается последовательность цифр, указывающая число 3-, 4- …n-угольных граней на полиэдре. Вместо двузначных чисел 10 … 14 для удобства использованы буквы латинского алфавита A … E. Так, символ **080002** означает, что на полиэдре нет 3-, 5-, 6- и 7-угольных, но есть восемь 4- и две 8-угольных граней; **0A01** – на полиэдре есть десять 4- и одна 6-угольная грани; 0D и 0E – тринадцать и четырнадцать 4-угольных граней, соответственно. Заметим также, что симметрия везде понимается в комбинаторном смысле, т.е. каждой форме приписана точечная группа симметрии наиболее симметричного представителя данного комбинаторного типа.

В следующем далее разделе упорядочены все 77657 форм согласно указанным выше принципам. Например, запись "**8-эдры: 044** (1) 528-652 (2) 653-660 (m) 661-670 (mm2) 671" означает, что в классе 8-эдров есть семейство форм с гранным символом **044**, в котором есть формы со следующими точечными группами симметрии (в международных обозначениях): (1) – рис. №№ 528-652, (2) – рис. 653-660, (m) – рис. 661-670, (mm2) – рис. 671 и т.д. Раздел "Статистика форм по числу граней и гранным символам" приведен для того, чтобы после определения гранного символа (это элементарно) и до определения точечной группы комбинаторной симметрии (это сложнее) можно было оценить, насколько обширен класс, к которому принадлежит данная форма. На всех рисунках грани куба помечены буквой k, октаэдра – o, причем видимые грани – жирным шрифтом.

Статистика форм по числу граней (ч.г.), порядкам групп автоморфизмов (п.г.а.) и точечным группам симметрии (т.г.с.)

п.г.а.	т.г.с.	ч.г.											Σ
		4	5	6	7	8	9	10	11	12	13	14	
1	1		2	37	282	1259	4267	9928	16861	19476	13896	4543	70551
2	m		9	30	114	314	505	843	1034	1222	961	697	5729
	2		1	2	8	28	26	161	45	240	36	151	698
	-1					4		15		19		11	49
4	mm2	1	2	10	8	27	15	62	31	93	42	88	379
	2/m			2		15		17		24		29	87
	222					1							1
6	3m	1	2	1	9	9	2	11	18		8	9	70
8	mmm					4		3		5		10	22
	4mm		1	1			4	9			9	9	33
	-42m			1		1		3		3			8
12	-3m			1		5				3		4	13
16	4/mmm							1		3		5	9
24	-43m	1				1		1					3
48	m-3m			1		1						3	5
Σ		3	17	86	421	1669	4819	11054	17989	21088	14952	5559	77657

Приведенная выше таблица показывает распределение форм по числу граней и точечным группам симметрии. Как видно, уникальных форм мало. Аналогично обстоит дело и с гранными символами – лишь малая доля форм фиксируется ими однозначно (а именно – 500, еще 310 символов характеризуют по 2 формы, 185 – по три … максимальное число форм с одинаковым гранным символом – 706, см. таблицу ниже). Даже обе характеристики не фиксируют форму, но все же разбивают их многообразие на классы, как правило, с небольшим числом представителей. И если вспомнить, что с кристаллографической точки зрения все 77657 форм – это одна и та же комбинация куба и октаэдра, то следует признать – в систематике ее разновидностей предлагаемый каталог представляет собой шаг вперед.

Число гранных символов, характеризующих заданное число полиэдров

Число форм	**Число гранных символов**	Число форм	**Число гранных символов**	Число форм	**Число гранных символов**	Число форм	**Число гранных символов**
1	500	61	4	125	1	242	1
2	310	62	3	126	1	243	1
3	185	63	4	127	5	247	1
4	146	64	2	129	1	248	1
5	108	65	6	130	1	250	1
6	82	66	6	131	2	255	1
7	87	67	6	133	1	257	1
8	65	68	4	136	3	260	1
9	36	69	2	137	2	262	1
10	49	70	1	139	2	265	1
11	57	71	6	140	1	271	1
12	47	72	1	141	1	274	1
13	32	73	2	142	1	281	1
14	41	74	3	143	1	282	1
15	29	75	1	144	3	296	1
16	33	76	4	145	1	297	3
17	24	77	4	146	1	299	1
18	37	78	2	148	3	301	1
19	15	79	3	151	2	306	2
20	22	80	2	152	3	310	1
21	19	81	1	153	1	318	1
22	21	82	4	154	3	330	1
23	13	83	2	155	1	331	1
24	11	84	3	156	3	337	1
25	13	85	3	157	1	339	1
26	20	86	4	159	3	343	1
27	12	87	4	160	1	351	2
28	16	88	1	161	1	361	1
29	12	89	3	162	1	369	1
30	5	90	5	167	4	370	1
31	8	91	2	169	1	371	1
32	17	92	2	170	2	373	1
33	12	93	2	171	2	378	1
34	8	94	1	174	1	384	1
35	11	95	2	176	1	400	1
36	9	96	3	178	1	402	1
37	6	97	3	180	1	403	2
38	9	99	2	181	1	408	1
39	8	100	3	182	2	424	1
40	5	101	5	188	1	428	1
41	8	102	2	192	1	432	1
42	6	103	1	193	1	434	1
43	6	104	3	196	2	435	1
44	6	105	3	197	1	440	1
45	6	106	3	198	2	447	1
46	6	108	1	200	4	451	1
47	11	109	2	205	1	458	1
48	2	110	4	207	1	466	1
49	4	111	1	210	2	479	1
50	4	112	4	211	1	544	1
51	4	114	1	212	1	563	1
52	2	115	2	213	1	580	1
53	7	116	1	215	4	596	1
54	7	117	1	218	1	649	1
55	5	119	3	220	1	660	1
56	6	120	1	221	1	676	1
57	5	121	2	230	1	706	2
58	4	122	1	235	2		
59	5	123	3	237	1		
60	6	124	3	240	1		

Упорядочение форм по числу граней, гранным символам и точечным группам симметрии

4-эдры: 4 (mm2) 1 (3m) 2 (-43m) 3

5-эдры: 23 (1) 4,5 (2) 6 (m) 7-13 (mm2) 14,15 (3m) 16,17 **41** (m) 18,19 (4mm) 20

6-эдры: 06 (1) 21-30 (2) 31,32 (m) 33-41 (2/m) 42,43 (mm2) 44-46 (-42m) 47 (4mm) 48 (-3m) 49 (m-3m) 50 **222** (1) 51-66 (m) 67-75 (mm2) 76-79 **24** (1) 80-86 (m) 87-92 (mm2) 93-95 **321** (1) 96-98 (m) 99-104 **42** (1) 105 **6** (3m) 106

7-эдры: 052 (1) 107-151 (2) 152-154 (m) 155-176 (mm2) 177,178 **133** (1) 179-229 (m) 230-246 (3m) 247,248 **151** (1) 249-338 (m) 339-349 **2221** (1) 350-362 (2) 363-365 **2302** (1) 366-368 (m) 369-374 (mm2) 375 **232** (1) 376-391 (m) 392-395 (mm2) 396 **2401** (1) 397 (m) 398-401 (mm2) 402 **25** (1) 403-421 (2) 422,423 (m) 424-433 (mm2) 434 **3031** (1) 435-437 (m) 438-447 (3m) 448-450 **313** (1) 451-468 (m) 469-479 **3211** (1) 480-483 (m) 484-486 **331** (1) 487-501 (m) 502-512 **412** (1) 513,514 **4201** (mm2) 515 **43** (1) 516,517 (m) 518-522 (3m) 523-526 **61** (mm2) 527

8-эдры: 044 (1) 528-652 (2) 653-660 (m) 661-670 (mm2) 671 **0602** (1) 672-686 (2) 687-689 (m) 690-702 (2/m) 703-707 (222) 708 (mm2) 709-712 (3m) 713 (-3m) 714,715 **062** (1) 716-801 (2) 802-804 (m) 805-818 **08** (1) 819,820 (2) 821 (m) 822-825 **1331** (1) 826-938 (m) 939-969 **1412** (1) 970-991 (m) 992-996 **143** (1) 997-1145 (m) 1146-1148 **1511** (1) 1149-1250 (m) 1251-1275 **161** (1) 1276-1329 (m) 1330-1343 **206** (1) 1344-1346 (2) 1347 (m) 1348-1350 (2/m) 1351-1353 (-3m) 1354,1355 **2141** (1) 1356-1369 (2) 1370,1371 (m) 1372-1377 (mm2) 1378,1379 **2222** (1) 1380-1404 (m) 1405-1418 (mm2) 1419-1423 **22301** (1) 1424-1426 (m) 1427 **224** (1) 1428-1501 (m) 1502-1516 (mm2) 1517 **23111** (1) 1518-1520 **2321** (1) 1521-1636 (m) 1637-1650 **24002** (mm2) 1651 **2402** (mm2) 1652 **24101** (1) 1653-1655 **242** (1) 1656-1788 (-1) 1789-1791 (2) 1792-1797 (m) 1798-1803 (2/m) 1804-1808 **2501** (1) 1809-1843 (2) 1844,1845 (m) 1846-1869 (mm2) 1870,1871 **26** (1) 1872-1876 (m) 1877-1880 (3m) 1881 **3113** (1) 1882 (m) 1883-1886 **31211** (1) 1887-1893 **3131** (1) 1894-1907 (m) 1908-1910 **3212** (1) 1911-1926 (m) 1927-1929 **32201** (1) 1930 (m) 1931 **323** (1) 1932-1977 (m) 1978-1998 **3311** (1) 1999-2011 **34001** (m) 2012 **341** (1) 2013-2054 (m) 2055-2069 **4004** (m) 2070-2072 (mm2) 2073,2074 (3m) 2075,2076 (-43m) 2077 **4022** (1) 2078-2085 (m) 2086-2093 (mm2) 2094-2097 **40301** (m) 2098 **404** (m) 2099 **4121** (1) 2100-2118 (m) 2119-2132 **422** (1) 2133-2135 (m) 2136-2139 **4301** (1) 2140,2141 (m) 2142-2150 (3m) 2151-2153 **44** (1) 2154 (-1) 2155 (2) 2156,2157 (m) 2158-2165 (2/m) 2166,2167 (mm2) 2168-2170 (-42m) 2171 (mmm) 2172-2174 **503** (1) 2175-2177 (m) 2178-2184 (3m) 2185,2186 **521** (1) 2187 (m) 2188,2189 **62** (m) 2190-2192 (mm2) 2193 **8** (mmm) 2194 (-3m) 2195 (m-3m) 2196

9-эдры: 036 (1) 2197-2278 (2) 2279-2281 (m) 2282-2296 (mm2) 2297 (3m) 2298 **0441** (1) 2299-2428 (2) 2429-2431 (m) 2432-2446 **0522** (1) 2447-2522 (m) 2523-2547 (mm2) 2548 **054** (1) 2549-2729 (2) 2730 (m) 2731-2760 (4mm) 2761 **0603** (1) 2762 (2) 2763 (m) 2764 (mm2) 2765 **0621** (1) 2766-2953 (2) 2954 (m) 2955-2957 **07002** (1) 2958-2960 (2) 2961,2962 (m) 2963-2966 **072** (1) 2967-3039 (2) 3040-3042 (m) 3043-3049 (mm2) 3050 **0801** (1) 3051-3072 (m) 3073-3087 (mm2) 3088 **09** (1) 3089 (2) 3090 **1251** (1) 3091-3142 (m) 3143-3155 **1332** (1) 3156-3314 **135** (1) 3315-3507 (m) 3508-3512 **1413** (1) 3513-3516 (m) 3517-3523 **14211** (1) 3524-3581 (m) 3582-3586 **1431** (1) 3587-3960 (m) 3961-3989 **1512** (1) 3990-4063 (m) 4064-4068 **15201** (1) 4069-4085 (m) 4086 **153** (1) 4087-4436 (m) 4437-4457 **16011** (1) 4458-4485 (m) 4486-4489 **1611** (1) 4490-4602 (m) 4603-4606 **171** (1) 4607-4679 (m) 4680-4695 **2142** (1) 4696-4709 (2) 4710 (m) 4711-4713 **21501** (1) 4714-4728 (m) 4729-4732 **216** (1) 4733 (m) 4734,4735 **2223** (1) 4736-4748 (2) 4749,4750 (m) 4751,4752 **22311** (1) 4753-4782 (m) 4783-4786 **224001** (2) 4787 **2241** (1) 4788-4894 (m) 4895-4899 **2304** (1) 4900-4914 (m) 4915-4926 (mm2) 4927 **23121** (1) 4928-4939 (m) 4940 **23202** (1) 4941-4943 (m) 4944-4946 **232101** (m) 4947 **2322** (1) 4948-5143 (m) 5144-5156 (mm2) 5157 **23301** (1) 5158-5230 (m) 5231,5232 **234** (1) 5233-5395 (2) 5396 (m) 5397-5403 **2403** (1) 5404-5412 (m) 5413-5415 **24111** (1) 5416-5444 **242001** (1) 5445 **2421** (1) 5446-5714 (2) 5715,5716 (m) 5717-5742 **2502** (1) 5743-5777 (2) 5778-5780 **25101** (1) 5781-5821 (m) 5822-5827 **252** (1) 5828-5983 (m) 5984-5998 **260001** (mm2) 5999 **2601** (1) 6000-6026 (m) 6027-6036 **27** (1) 6037-6048 (m) 6049-6061 (mm2) 6062 **3033** (1) 6063-6067 (m) 6068-6072 (3m) 6073 **3051** (1) 6074-6086 (m) 6087-6089 **31221** (1) 6090-6102 (m) 6103-6106 **313101** (1) 6107 **3132** (1) 6108-6157 **31401** (1) 6158-6167 (m) 6168-6171 **315** (1) 6172-6192 (m) 6193-6199 **32031** (m) 6200,6201 **321201** (m) 6202 **3213** (1) 6203-6226 (m) 6227-6231 **322011** (m) 6232 **32211** (1) 6233-6256 (m) 6257,6258 **323001** (m) 6259 **3231** (1) 6260-6416 (m) 6417-6420 **33021** (m) 6421 **33102** (1) 6422 **3312** (1) 6423-6471 (m) 6472-6478 **33201** (1) 6479-6501 (m) 6502-6506 **333** (1) 6507-6617 (m) 6618-6633 **34011** (m) 6634 **3411** (1) 6635-6721 (m) 6722-6727 **35001** (1) 6728-6733 (m) 6734,6735 **351** (1) 6736-6771 (m) 6772-6776 **402201** (mm2) 6777 **40311** (m) 6778 **404001** (4mm) 6779 **4041** (1) 6780,6781 (m) 6782,6783 (mm2) 6784,6785 **41022** (1) 6786 (m) 6787-6790 **4104** (1) 6791 (m) 6792-6795 **41121** (1) 6796-6807 (m) 6808 **41202** (1) 6809 (m) 6810-6812 **4122** (1) 6813-6834 (m) 6835 **41301** (1) 6836-6841 (m) 6842 **414** (1) 6843-6855 **4203** (1) 6856,6857 (m) 6858-6865 (mm2) 6866 **42111** (1) 6867-6875 **4221** (1) 6876-6914 (m) 6915-6927 **4302** (1) 6928 **43101** (1) 6929-6932 **432** (1) 6933-6962 (2) 6963 (m) 6964-6972 **4401** (1) 6973-6983 (mm2) 6984,6985 **45** (1) 6986-6988 (m) 6989-6995 (4mm) 6996,6997 **5112** (1) 6998 (m) 6999-7004 **513** (1) 7005,7006 (m) 7007,7008 **5211** (1) 7009 **531** (1) 7010,7011 (m) 7012,7013 **612** (m) 7014,7015

10-эдры: 028 (1) 7016-7049 (2) 7050-7057 (m) 7058-7066 (4mm) 7067 **0361** (1) 7068-7148 (m) 7149-7174 (3m) 7175-7177 **0442** (1) 7178-7397 (-1) 7398-7400 (2) 7401-7427 (m) 7428,7429 (2/m) 7430,7431 (mmm) 7432 **046** (1) 7433-7618 (2) 7619-7624 (m) 7625-7642 **0523** (1) 7643-7674 (2) 7675-7677 (m) 7678-7696 (mm2) 7697,7698 **05311** (1) 7699-7736 (m) 7737-7739 **0541** (1) 7740-8160 (m) 8161-8186 **0604** (1) 8187,8188 (2) 8189,8190 (m) 8191-8193 (-42m) 8194 **06121** (1) 8195 (m) 8196 **06202** (1) 8197-8210 (2) 8211 (m) 8212 **0622** (1) 8213-8398 (2) 8399-8408 (m) 8409-8412 **06301** (1) 8413-8426 (m) 8427-8429 **064** (1) 8430-8692 (-1) 8693-8695 (2) 8696-8716 (m) 8717-8730 (2/m) 8731-8733 (mm2) 8734-8739 **07111** (1) 8740-8766 **0721** (1) 8767-8954 (2) 8955-8959 (m) 8960-8971 **080002** (m) 8972 (2/m) 8973 (-42m) 8974 (4mm) 8975 **0802** (1) 8976-8987 (2) 8988,8989 (m) 8990-8998 (mm2) 8999-9001 **08101** (1) 9002-9007 (m) 9008 **082** (1) 9009-9092 (2) 9093-9100 (m) 9101-9104 (mm2) 9105-9107 **0901** (1) 9108-9112 (m) 9113,9114 **0A** (1) 9115-9117 (2) 9118-9120 (m) 9121 (2/m) 9122,9123 (4/mmm) 9124 **1252** (1) 9125-9210 (m) 9211-9228 **12601** (1) 9229-9245 (m) 9246-9248 **127** (1) 9249-9300 (m) 9301-9314 **1333** (1) 9315-9378 (m) 9379-9392 (3m) 9393,9394 **13411** (1) 9395-9480 **1351** (1) 9481-9836 (m) 9837-9850 **1414** (1) 9851-9871 (m) 9872-9888 **14221** (1) 9889-9971 (m)

9972 **14302** (1) 9973-9980 **143101** (1) 9981 **1432** (1) 9982-10396 (m) 10397-10432 **14401** (1) 10433-10569 (m) 10570,10571 **145** (1) 10572-10919 (m) 10920-10955 **151201** (1) 10956-10959 **1513** (1) 10960-11050 (m) 11051-11063 **152011** (1) 11064-11066 (m) 11067-11072 **15211** (1) 11073-11199 **153001** (m) 11200 **1531** (1) 11201-11849 (m) 11850-11876 **16021** (1) 11877-11880 (m) 11881 **16102** (1) 11882-11891 (m) 11892 **161101** (1) 11893-11896 **1612** (1) 11897-12037 (m) 12038-12044 **16201** (1) 12045-12130 (m) 12131,12132 **163** (1) 12133-12450 (m) 12451-12481 (3m) 12482,12483 **170011** (1) 12484-12486 (m) 12487-12492 **17011** (1) 12493-12497 (m) 12498 **1711** (1) 12499-12639 (m) 12640-12654 **18001** (1) 12655-12661 **181** (1) 12662-12706 (m) 12707-12717 **2062** (2) 12718 **2143** (1) 12719-12725 **21511** (1) 12726-12737 **2161** (1) 12738-12750 **2224** (1) 12751-12770 (2) 12771-12773 (m) 12774 (2/m) 12775 (mm2) 12776 **22321** (1) 12777-12821 (m) 12822,12823 **22402** (1) 12824-12833 (-1) 12834 (2) 12835 (m) 12836 (2/m) 12837 **224101** (1) 12838-12845 (m) 12846,12847 (mm2) 12848-12850 **2242** (1) 12851-13025 (2) 13026-13028 (m) 13029-13031 (mm2) 13032 **22501** (1) 13033-13062 (m) 13063 **226** (1) 13064-13119 (2) 13120-13126 (m) 13127-13134 (2/m) 13135 (mm2) 13136-13141 **23131** (1) 13142-13160 (m) 13161,13162 **23212** (1) 13163-13165 (2) 13166,13167 **232201** (1) 13168-13171 (2) 13172 (m) 13173-13178 **2323** (1) 13179-13333 (m) 13334-13337 **233011** (1) 13338-13340 **23311** (1) 13341-13514 (m) 13515,13516 **234001** (1) 13517-13523 (m) 13524,13525 **2341** (1) 13526-13958 (m) 13959-13965 **24022** (1) 13966-13976 (2) 13977 (m) 13978-13980 (mm2) 13981 **240301** (m) 13982-13984 **2404** (1) 13985-13989 (m) 13990,13991 **24121** (1) 13992-14057 (m) 14058,14059 **242002** (mm2) 14060 **24202** (1) 14061-14083 (2) 14084 (m) 14085-14089 **242101** (1) 14090-14114 (m) 14115-14117 **2422** (1) 14118-14466 (-1) 14467-14469 (2) 14470-14477 (m) 14478-14486 **24301** (1) 14487-14603 (m) 14604-14609 **244** (1) 14610-14910 (2) 14911-14916 (m) 14917-14936 (mm2) 14937-14939 **2503** (1) 14940-14955 (2) 14956,14957 (m) 14958-14966 **251011** (1) 14967 **25111** (1) 14968-15047 **252001** (1) 15048-15054 (2) 15055 (m) 15056-15059 **2521** (1) 15060-15424 (m) 15425-15437 **26002** (1) 15438-15444 (-1) 15445 (2) 15446,15447 (m) 15448 (2/m) 15449 **260101** (1) 15450-15452 (m) 15453-15458 (mm2) 15459-15461 **2602** (1) 15462-15478 (2) 15479 (m) 15480 **26101** (1) 15481-15504 (m) 15505-15508 **262** (1) 15509-15656 (-1) 15657 (2) 15658-15663 (m) 15664-15678 (2/m) 15679 (mm2) 15680-15686 **2701** (1) 15687-15708 (m) 15709-15713 (mm2) 15714,15715 **28** (1) 15716-15720 (2) 15721-15723 (m) 15724-15727 (mm2) 15728-15730 **30421** (1) 15731 (m) 15732,15733 **305101** (1) 15734 (m) 15735-15737 **3052** (1) 15738 (m) 15739,15740 **30601** (1) 15741,15742 (m) 15743,15744 **31231** (1) 15745-15756 (m) 15757-15760 **31312** (1) 15761 (m) 15762,15763 **313201** (m) 15764-15768 **3133** (1) 15769-15783 (m) 15784 **31411** (1) 15785-15830 (m) 15831-15833 **315001** (1) 15834-15836 (m) 15837-15840 **3151** (1) 15841-15862 (m) 15863-15865 **32122** (1) 15866-15883 **321301** (1) 15884 **3214** (1) 15885-15910 **322111** (1) 15911-15915 **32221** (1) 15916-15976 (m) 15977-15979 **32302** (1) 15980-15996 **323101** (1) 15997-16005 (m) 16006-16008 **3232** (1) 16009-16156 (m) 16157-16162 **32401** (1) 16163-16218 (m) 16219-16221 **325** (1) 16222-16261 (m) 16262-16265 **33013** (3m) 16266 **33031** (1) 16267-16297 (m) 16298 **33112** (1) 16299-16304 (m) 16305,16306 **331201** (1) 16307-16310 (m) 16311 **3313** (1) 16312-16383 (m) 16384-16390 **332011** (1) 16391-16393 **33211** (1) 16394-16539 (m) 16540-16545 **333001** (1) 16546-16555 (m) 16556-16561 **3331** (1) 16562-16785 (m) 16786-16796 **34021** (1) 16797-16801 (m) 16802,16803 **34102** (1) 16804-16807 (m) 16808 **341101** (1) 16809-16813 **3412** (1) 16814-16920 (m) 16921-16925 **34201** (1) 16926-16994 (m) 16995,16996 **343** (1) 16997-17110 (m) 17111-17116 **35011** (1) 17117-17135 (m) 17136-17140 **351001** (1) 17141-17143 (m) 17144-17148 **3511** (1) 17149-17215 (m) 17216-17219 **36001** (1) 17220-17222 **361** (1) 17223-17247 (m) 17248-17250 **4006** (mmm) 17251 (-43m) 17252 **40141** (m) 17253-17255 **40222** (1) 17256-17259 (2) 17260 **4024** (1) 17261-17271 (2) 17272 (m) 17273 (mm2) 17274 **40303** (m) 17275,17276 (3m) 17277 **40321** (1) 17278-17291 (m) 17292-17297 **4042** (1) 17298-17321 (-1) 17322 (2) 17323 (m) 17324-17329 (mm2) 17330 (mmm) 17331 **40501** (1) 17332-17337 (m) 17338,17339 **406** (2) 17340 (m) 17341,17342 (3m) 17343 **410401** (m) 17344 (4mm) 17345,17346 **41131** (1) 17347-17358 (m) 17359,17360 **41212** (1) 17361-17374 **412201** (m) 17375-17377 **4123** (1) 17378-17419 (2) 17420,17421 (m) 17422-17428 (mm2) 17429,17430 **41311** (1) 17431-17464 **414001** (mm2) 17465,17466 **4141** (1) 17467-17523 (m) 17524-17528 **420121** (m) 17529,17530 **420202** (mm2) 17531 **42022** (1) 17532,17533 (mm2) 17534 **420301** (m) 17535,17536 **4204** (1) 17537-17546 (2) 17547 (m) 17548,17549 **42103** (m) 17550,17551 **421111** (1) 17552-17554 **42121** (1) 17555-17582 (m) 17583,17584 **422002** (mm2) 17585 **42202** (1) 17586-17592 **422101** (1) 17593,17594 (m) 17595-17597 **4222** (1) 17598-17692 (2) 17693 (m) 17694-17703 **42301** (1) 17704-17732 (m) 17733-17738 **424** (1) 17739-17760 (-1) 17761 (2) 17762 (m) 17763-17767 (2/m) 17768 (4mm) 17769,17770 **43012** (1) 17771,17772 (m) 17773 **430201** (m) 17774 **4303** (1) 17775-17780 (m) 17781-17785 (3m) 17786 **431011** (1) 17787 **43111** (1) 17788-17810 **432001** (m) 17811-17813 **4321** (1) 17814-17894 (2) 17895-17898 (m) 17899-17902 **440101** (m) 17903 **4402** (1) 17904-17910 (-1) 17911 (2) 17912,17913 (m) 17914-17918 (2/m) 17919 (mm2) 17920,17921 (-42m) 17922 **44101** (1) 17923-17936 (m) 17937,17938 **442** (1) 17939-17954 (2) 17955 (m) 17956-17959 (mm2) 17960 **450001** (4mm) 17961,17962 **4501** (1) 17963-17966 (m) 17967 **46** (1) 17968 (2/m) 17969 (mm2) 17970,17971 **50221** (1) 17972-17974 (m) 17975-17978 **5032** (1) 17979-17987 (m) 17988 **50401** (m) 17989,17990 **505** (1) 17991 (m) 17992-17995 **5113** (1) 17996-17999 **51211** (1) 18000-18003 (m) 18004,18005 **5131** (1) 18006-18020 (m) 18021-18023 **52021** (m) 18024 **52102** (m) 18025 **5212** (1) 18026-18036 **52201** (1) 18037,18038 (m) 18039 **523** (1) 18040-18044 (m) 18045-18047 **5311** (1) 18048-18052 (m) 18053-18058 **541** (1) 18059 (m) 18060 **604** (m) 18061 **6121** (m) 18062,18063 **6202** (mm2) 18064 **622** (m) 18065 (2/m) 18066 **6301** (mm2) 18067,18068 **82** (4mm) 18069

11-эдры: 0281 (1) 18070-18125 (2) 18126 (m) 18127-18135 (mm2) 18136 **0362** (1) 18137-18240 (2) 18241-18244 (m) 18245-18248 **038** (1) 18249-18295 (m) 18296-18301 **0443** (1) 18302-18455 (2) 18456,18457 (m) 18458-18481 (mm2) 18482 **04511** (1) 18483-18534 (m) 18535-18541 **0461** (1) 18542-18944 (2) 18945 (m) 18946-18964 (mm2) 18965 **0524** (1) 18966-18983 (2) 18984,18985 **05321** (1) 18986-19029 (m) 19030,19031 **05402** (1) 19032-19041 (2) 19042,19043 (m) 19044 **0542** (1) 19045-19462 (2) 19463,19464 (m) 19465-19479 **05501** (1) 19480-19529 (m) 19530-19533 **056** (1) 19534-19751 (2) 19752-19756 (m) 19757-19775 **0605** (1) 19776 (m) 19777-19784 (3m) 19785,19786 **06131** (1) 19787-19791 (m) 19792 **06212** (1) 19793-19797 (2) 19798 (m) 19799 **062201** (m) 19800,19801 (mm2) 19802,19803 **0623** (1) 19804-19934 (m) 19935-19944 **063011** (1) 19945-19948 **06311** (1) 19949-20031 (m) 20032-20034 **064001** (mm2) 20035 **0641** (1) 20036-20621 (2) 20622 (m) 20623-20630 (mm2) 20631 **07121** (1) 20632-20650 (m) 20651 **072002** (1) 20652 (m) 20653,20654 **07202** (1) 20655-20660 (2) 20661 (m) 20662 **072101** (1) 20663,20664 **0722** (1) 20665-20807 (2) 20808-20812 (m) 20813-20845 (mm2) 20846 **07301** (1) 20847-20890 (m) 20891-20894 **074** (1) 20895-21109 (2) 21110,21111 (m) 21112-21128 (mm2) 21129 **0803** (1) 21130-21136 (2) 21137 (m) 21138,21139 (mm2) 21140 **081011** (1) 21141-21144 **08111** (1) 21145-21157 (m) 21158 **0821** (1) 21159-21323 (m) 21324-21330 (mm2) 21331,21332 **09002** (1) 21333 **090101** (m) 21334,21335 **0902** (2) 21336 **09101** (1) 21337-21342 (m) 21343,21344 **092** (1) 21345-21392 (2) 21393,21394 (m) 21395-21404 **0A01** (1) 21405-21407 (m) 21408-21415 **0B** (1) 21416,21417 (m) 21418 (mm2) 21419 **1172** (1) 21420-21432 (m) 21433-21435 **119** (1) 21436-21446 (m) 21447-21449 **1253** (1) 21450-21492 (m) 21493-21495 **12611** (1) 21496-21536 **1271** (1) 21537-21655 (m) 21656-21658 **1334** (1) 21659-21693 (m) 21694-21709 (3m) 21710-21712 **13421** (1) 21713-21800 (m) 21801,21802 **13502** (1) 21803-21816 (m) 21817-21820 **135101** (1) 21821-21825 (m) 21826-21828 **1352** (1) 21829-22142 (m)

22143-22167 **13601** (1) 22168-22222 (m) 22223,22224 **137** (1) 22225-22384 (m) 22385-22391 **1415** (1) 22392-22398 **14231** (1) 22399-22471 (m) 22472 **14312** (1) 22473-22486 (m) 22487 **143201** (1) 22488-22505 (m) 22506 **1433** (1) 22507-22839 (m) 22840-22843 **144011** (1) 22844-22847 (m) 22848,22849 **14411** (1) 22850-23143 (m) 23144-23146 **145001** (1) 23147-23154 (m) 23155-23157 **1451** (1) 23158-23794 (m) 23795-23817 **15122** (1) 23818-23826 (m) 23827-23829 **151301** (1) 23830 **1514** (1) 23831-23882 (m) 23883-23885 **152111** (1) 23886-23895 **15221** (1) 23896-24035 (m) 24036-24039 **15302** (1) 24040-24073 (m) 24074-24078 **153101** (1) 24079-24107 (m) 24108-24110 **1532** (1) 24111-24807 (m) 24808-24816 **15401** (1) 24817-24968 (m) 24969-24972 **155** (1) 24973-25362 (m) 25363-25374 **16031** (1) 25375-25381 **16112** (1) 25382-25390 (m) 25391 **161201** (1) 25392-25396 (m) 25397 **1613** (1) 25398-25489 (m) 25490-25498 **162011** (1) 25499-25510 (m) 25511,25512 **16211** (1) 25513-25675 (m) 25676-25679 **163001** (1) 25680-25690 (m) 25691,25692 **1631** (1) 25693-26309 (m) 26310-26338 (3m) 26339-26341 **17021** (1) 26342-26346 **17102** (1) 26347-26357 (m) 26358 **171101** (1) 26359-26368 **1712** (1) 26369-26473 (m) 26474-26479 **17201** (1) 26480-26521 (m) 26522,26523 **173** (1) 26524-26747 (m) 26748-26760 **18011** (1) 26761-26770 (m) 26771 **181001** (1) 26772,26773 (m) 26774 **1811** (1) 26775-26848 (m) 26849,26850 **19001** (m) 26851,26852 **191** (1) 26853-26874 (m) 26875-26880 **20711** (m) 26881 **208001** (m) 26882 **2144** (1) 26883,26884 **21521** (1) 26885-26888 (m) 26889 **21602** (1) 26890 (m) 26891 **216101** (1) 26892,26893 **2162** (1) 26894-26902 (m) 26903 **21701** (1) 26904,26905 **218** (1) 26906-26908 (m) 26909 (mm2) 26910 **2225** (1) 26911-26913 (m) 26914-26918 (mm2) 26919,26920 **22331** (1) 26921-26957 (m) 26958-26960 **22412** (1) 26961-26975 (m) 26976-26978 **224201** (1) 26979-26993 (2) 26994 (m) 26995 (mm2) 26996 **2243** (1) 26997-27108 (m) 27109-27121 **225011** (1) 27122,27123 (m) 27124 **22511** (1) 27125-27234 (m) 27235-27239 **226001** (1) 27240-27246 (m) 27247,27248 **2261** (1) 27249-27381 (m) 27382-27387 (mm2) 27388-27390 **2306** (3m) 27391 **23141** (1) 27392-27397 **23222** (1) 27398-27437 **232301** (1) 27438-27446 (m) 27447-27451 **2324** (1) 27452-27515 (m) 27516,27517 **23303** (1) 27518,27519 (m) 27520 **233111** (1) 27521-27528 **23321** (1) 27529-27741 (m) 27742,27743 **234002** (1) 27744 **23402** (1) 27745-27779 (m) 27780 **234101** (1) 27781-27823 **2342** (1) 27824-28232 (2) 28233,28234 (m) 28235-28251 **23501** (1) 28252-28378 (m) 28379-28382 **236** (1) 28383-28514 (m) 28515-28525 **24032** (1) 28526-28529 (m) 28530-28535 **240401** (m) 28536 **2405** (1) 28537-28541 (m) 28542-28547 (mm2) 28548 **24113** (1) 28549-28556 **241211** (1) 28557-28559 **24131** (1) 28560-28658 (m) 28659,28660 **24212** (1) 28661-28728 (m) 28729-28731 **242201** (1) 28732-28767 (m) 28768 **2423** (1) 28769-29040 (2) 29041 (m) 29042-29050 **243011** (1) 29051-29059 **24311** (1) 29060-29404 (m) 29405-29410 **244001** (1) 29411-29441 (m) 29442-29444 (mm2) 29445 **2441** (1) 29446-29992 (m) 29993-30007 (mm2) 30008 **250121** (m) 30009 **250202** (1) 30010 (m) 30011,30012 **25022** (1) 30013-30022 **2504** (1) 30023-30040 (m) 30041-30053 **25103** (m) 30054 **251111** (1) 30055-30061 **25121** (1) 30062-30180 **252002** (1) 30181 (m) 30182,30183 **25202** (1) 30184-30218 (m) 30219 **252101** (1) 30220-30245 (m) 30246-30251 **2522** (1) 30252-30627 (2) 30628 (m) 30629-30651 **25301** (1) 30652-30814 (m) 30815-30821 **254** (1) 30822-31063 (2) 31064,31065 (m) 31066-31077 (mm2) 31078 **26012** (1) 31079-31081 **260201** (1) 31082,31083 (m) 31084 (mm2) 31085 **2603** (1) 31086-31111 (3m) 31112,31113 **261011** (1) 31114-31118 **26111** (1) 31119-31191 (m) 31192 **262001** (1) 31193-31203 **2621** (1) 31204-31454 (m) 31455-31473 (mm2) 31474 **270101** (1) 31475 (m) 31476 **2702** (1) 31477-31489 (m) 31490-31494 **27101** (1) 31495-31515 (m) 31516 **272** (1) 31517-31588 (2) 31589 (m) 31590-31597 **280001** (m) 31598 **2801** (1) 31599-31604 (m) 31605-31610 **29** (1) 31611-31614 (m) 31615 (mm2) 31616 (3m) 31617 **31241** (1) 31618,31619 **31322** (1) 31620-31623 **313301** (1) 31624-31626 (m) 31627 **3134** (1) 31628-31634 **314111** (1) 31635-31639 **31421** (1) 31640-31662 (m) 31663 **31502** (1) 31664-31670 **315101** (1) 31671-31675 **3152** (1) 31676-31696 (m) 31697 **31601** (1) 31698,31699 **317** (1) 31700 (m) 31701 **32051** (1) 31702 (m) 31703 **32132** (1) 31704-31713 **321401** (1) 31714,31715 (m) 31716,31717 **3215** (1) 31718-31733 **32213** (1) 31734-31742 (m) 31743 **322211** (1) 31744-31749 (m) 31750,31751 **32231** (1) 31752-31843 (m) 31844,31845 **32312** (1) 31846-31890 **323201** (1) 31891-31916 (m) 31917-31919 **3233** (1) 31920-32078 (m) 32079-32086 **324011** (1) 32087-32094 (m) 32095-32097 **32411** (1) 32098-32251 (m) 32252-32254 **325001** (1) 32255-32259 (m) 32260,32261 **3251** (1) 32262-32387 (m) 32388-32392 **33041** (1) 32393-32398 (m) 32399 **331121** (1) 32400-32405 **331202** (1) 32406-32408 **33122** (1) 32409-32447 **331301** (1) 32448-32453 (m) 32454 **3314** (1) 32455-32516 **33203** (1) 32517-32523 (m) 32524 **332111** (1) 32525-32538 **33221** (1) 32539-32740 (m) 32741-32745 **333002** (1) 32746,32747 **33302** (1) 32748-32782 **333101** (1) 32783-32819 **3332** (1) 32820-33177 (m) 33178-33180 **33401** (1) 33181-33275 (m) 33276,33277 **335** (1) 33278-33355 (m) 33356-33364 **34013** (1) 33365,33366 **340211** (1) 33367-33378 (m) 33379,33380 **34031** (1) 33381-33397 (m) 33398 **34112** (1) 33399-33433 (m) 33434 **341201** (1) 33435-33451 **3413** (1) 33452-33556 (m) 33557-33561 **342011** (1) 33562-33574 (m) 33575,33576 **34211** (1) 33577-33740 (m) 33741-33746 **343001** (1) 33747-33758 (m) 33759-33763 **3431** (1) 33764-34061 (m) 34062-34069 **35021** (1) 34070-34086 (m) 34087,34088 **35102** (1) 34089-34099 **351101** (1) 34100-34111 **3512** (1) 34112-34215 (m) 34216 **35201** (1) 34217-34260 (m) 34261-34264 **353** (1) 34265-34354 (m) 34355-34363 **36011** (1) 34364-34368 **361001** (1) 34369 (m) 34370 **3611** (1) 34371-34412 (m) 34413-34417 **37001** (m) 34418,34419 **371** (1) 34420-34429 (m) 34430-34436 **402401** (m) 34437 **40313** (1) 34438 **403211** (1) 34439 **40331** (1) 34440-34442 (m) 34443 **40412** (1) 34444,34445 **404201** (1) 34446-34448 (m) 34449 **4043** (1) 34450,34451 **405011** (1) 34452 **40511** (1) 34453-34459 (m) 34460 **406001** (1) 34461 **4061** (1) 34462 **41042** (m) 34463 **41123** (1) 34464,34465 (m) 34466 **411311** (1) 34467,34468 **41141** (1) 34469-34475 **41204** (1) 34476 **412121** (1) 34477 (m) 34478-34481 **412202** (1) 34482 **41222** (1) 34483-34509 **412301** (1) 34510-34516 (m) 34517-34520 **4124** (1) 34521-34530 (m) 34531-34533 **413012** (m) 34534 **41303** (m) 34535,34536 **413111** (1) 34537-34543 **41321** (1) 34544-34597 (m) 34598 **41402** (1) 34599-34609 (m) 34610-34612 **414101** (1) 34613-34627 (m) 34628 **4142** (1) 34629-34657 (m) 34658-34661 **41501** (1) 34662-34677 (m) 34678 **416** (1) 34679,34680 **420221** (1) 34681 (2) 34682 (m) 34683 **42032** (1) 34684-34689 (m) 34690,34691 **4205** (1) 34692,34693 (m) 34694,34695 **42113** (1) 34696-34709 **421211** (1) 34710-34720 **42131** (1) 34721-34778 **422021** (1) 34779,34780 **422102** (1) 34781-34783 **42212** (1) 34784-34822 (2) 34823 (m) 34824 **422201** (1) 34825-34834 (2) 34835 (m) 34836,34837 **4223** (1) 34838-34904 (m) 34905,34906 **423011** (1) 34907-34913 (m) 34914 **42311** (1) 34915-35017 (m) 35018-35020 **424001** (1) 35021-35027 (m) 35028,35029 **4241** (1) 35030-35092 (m) 35093,35094 **430103** (3m) 35095 **430121** (m) 35096 **43022** (1) 35097-35113 (m) 35114-35117 **430301** (1) 35118-35120 (m) 35121-35123 **4304** (1) 35124-35130 (m) 35131-35133 (3m) 35134 **431012** (m) 35135 **43103** (1) 35136 (m) 35137 **431111** (1) 35138-35144 **43121** (1) 35145-35209 **432002** (1) 35210 **43202** (1) 35211-35229 (m) 35230-35232 **432101** (1) 35233-35245 (m) 35246-35249 **4322** (1) 35250-35325 (m) 35326-35331 **43301** (1) 35332-35376 (m) 35377,35378 **434** (1) 35379-35399 (m) 35400 **440021** (m) 35401 **44012** (1) 35402-35404 **440201** (1) 35405 (m) 35406 **4403** (1) 35407-35414 (2) 35415 (m) 35416-35420 **441011** (1) 35421,35422 **44111** (1) 35423-35455 (m) 35456 **442001** (1) 35457-35461 **4421** (1) 35462-35512 (m) 35513-35519 **450101** (1) 35520 **4502** (1) 35521,35522 (m) 35523,35524 **45101** (1) 35525-35528 (m) 35529 **452** (1) 35530-35541 (m) 35542,35543 **4601** (m) 35544,35545 **47** (1) 35546,35547 (m) 35548 **50033** (m) 35549 (3m) 35550 **50051** (1) 35551 (m) 35552,35553 **501221** (m) 35554-35556 **50132** (1) 35557-35563 **501401** (m) 35564,35565 **5015** (1) 35566-35569 (m) 35570-35574 **50213** (1) 35575-35578 (m) 35579 **502211** (1) 35580 **50231** (1) 35581-35604 (m) 35605-35607 **503021** (m) 35608-35610 **50312** (1) 35611-35617 (m) 35618-35620 **503201** (1) 35621 (m) 35622-35624 **5033** (1) 35625-35644 (m) 35645-35651 (3m) 35652 **50411** (1) 35653-35669 (m) 35670,35671 **505001** (m) 35672 **5051** (1) 35673-35677 (m) 35678-35682

510311 (1) 35683-35685 **51041** (1) 35686-35689 (m) 35690 **51122** (1) 35691-35709 **511301** (1) 35710,35711 **5114** (1) 35712-35731 **51203** (1) 35732-35734 (m) 35735 **512111** (1) 35736-35739 **51221** (1) 35740-35784 (m) 35785,35786 **51302** (1) 35787-35793 **513101** (1) 35794,35795 **5132** (1) 35796-35839 (m) 35840-35844 **51401** (1) 35845-35854 **515** (1) 35855,35856 (m) 35857,35858 **52031** (1) 35859-35871 (m) 35872,35873 **52112** (1) 35874-35880 (m) 35881-35883 **521201** (m) 35884 **5213** (1) 35885-35905 (m) 35906,35907 **522011** (1) 35908 **52211** (1) 35909-35940 (m) 35941,35942 **523001** (m) 35943 **5231** (1) 35944-35963 (m) 35964-35969 **53003** (3m) 35970 **53021** (1) 35971-35973 (m) 35974 **53102** (1) 35975,35976 **5312** (1) 35977-35986 (m) 35987-35990 **53201** (1) 35991-35997 **533** (1) 35998-36000 (m) 36001 (3m) 36002 **54011** (1) 36003 **5411** (1) 36004 (m) 36005 **551** (m) 36006,36007 **600401** (m) 36008 (mm2) 36009 **60131** (1) 36010-36013 **60212** (1) 36014 **602201** (m) 36015,36016 **6023** (1) 36017,36018 (m) 36019-36022 **60311** (1) 36023-36026 **604001** (mm2) 36027 **6041** (m) 36028 **6104** (1) 36029,36030 (m) 36031 **61121** (1) 36032-36035 **6122** (1) 36036-36043 (m) 36044 **61301** (1) 36045,36046 **614** (m) 36047 (mm2) 36048 **6203** (m) 36049,36050 **6221** (1) 36051-36053 (m) 36054 **632** (m) 36055 **65** (mm2) 36056 **7013** (m) 36057 **7031** (m) 36058

12-эдры: 00C (m) 36059 (mm2) 36060 (-3m) 36061 **0282** (1) 36062-36103 (2) 36104-36109 (m) 36110-36115 (mm2) 36116-36119 **02A** (1) 36120-36124 (2) 36125 (m) 36126-36130 (mm2) 36131 **0363** (1) 36132-36199 (2) 36200 (m) 36201-36212 (mm2) 36213 **03711** (1) 36214-36229 (m) 36230-36233 **0381** (1) 36234-36337 (m) 36338-36347 **0444** (1) 36348-36399 (2) 36400-36412 (m) 36413-36421 (2/m) 36422-36424 (mm2) 36425-36428 (-42m) 36429,36430 (mmm) 36431-36433 **04521** (1) 36434-36477 (m) 36478-36480 **04602** (1) 36481,36482 (-1) 36483 (2) 36484-36486 (m) 36487 **046101** (2) 36488 **0462** (1) 36489-36822 (2) 36823-36829 (m) 36830-36854 (mm2) 36855-36861 **04701** (1) 36862-36886 (m) 36887,36888 **048** (1) 36889-36963 (2) 36964-36972 (m) 36973-36983 (2/m) 36984-36986 (mm2) 36987-36991 (mmm) 36992 (4/mmm) 36993 **0525** (1) 36994-37002 (m) 37003-37008 **05331** (1) 37009-37039 (m) 37040 **05412** (1) 37041-37051 (2) 37052 **054201** (1) 37053-37055 (m) 37056-37062 **0543** (1) 37063-37290 (m) 37291-37305 **055011** (1) 37306-37308 (m) 37309,37310 **05511** (1) 37311-37398 (m) 37399-37401 **056001** (1) 37402 (m) 37403,37404 **0561** (1) 37405-37818 (2) 37819,37820 (m) 37821-37837 (mm2) 37838 **06141** (1) 37839-37842 (m) 37843 **06222** (1) 37844,37845 (2) 37846,37847 (mm2) 37848 **0624** (1) 37849-37911 (2) 37912-37914 (m) 37915,37916 (mm2) 37917-37919 **063111** (1) 37920,37921 **06321** (1) 37922-38003 (m) 38004-38006 **064002** (2/m) 38007 (mm2) 38008 **06402** (1) 38009-38021 (2) 38022 (m) 38023,38024 **064101** (1) 38025-38035 **0642** (1) 38036-38450 (-1) 38451,38452 (2) 38453-38472 (m) 38473-38496 (mm2) 38497-38501 **06501** (1) 38502-38550 (m) 38551-38555 **066** (1) 38556-38734 (2) 38735-38742 (m) 38743-38761 (mm2) 38762-38766 **07032** (m) 38767 **070401** (mm2) 38768 **07131** (1) 38769-38776 (m) 38777 **072102** (2) 38778 (m) 38779 **07212** (1) 38780-38784 **072201** (1) 38785,38786 **0723** (1) 38787-38873 (2) 38874 (m) 38875-38882 (mm2) 38883 **073011** (1) 38884-38886 (m) 38887,38888 **07311** (1) 38889-38960 (m) 38961 **074001** (1) 38962-38965 (2) 38966 (m) 38967 **0741** (1) 38968-39294 (m) 39295-39310 **0804** (1) 39311-39313 (2) 39314 (m) 39315-39319 (2/m) 39320 (mm2) 39321 (mmm) 39322 (4/mmm) 39323 **081111** (1) 39324,39325 **08121** (1) 39326-39331 **08202** (1) 39332-39334 (-1) 39335 (2) 39336,39337 (m) 39338 **082101** (1) 39339,39340 (2) 39341 (m) 39342-39346 **0822** (1) 39347-39450 (2) 39451-39453 (m) 39454-39459 (mm2) 39460-39462 **08301** (1) 39463-39482 (m) 39483,39484 **084** (1) 39485-39585 (-1) 39586 (2) 39587-39592 (m) 39593-39602 (2/m) 39603 (mm2) 39604-39606 (-42m) 39607 **09012** (2) 39608 **090201** (m) 39609 **09111** (1) 39610-39616 (m) 39617 **092001** (1) 39618,39619 (m) 39620 **0921** (1) 39621-39675 (2) 39676 (m) 39677-39685 (mm2) 39686 **0A02** (2) 39687,39688 (m) 39689 (2/m) 39690 **0A101** (1) 39691 (m) 39692 **0A2** (1) 39693-39705 (2) 39706,39707 (m) 39708-39710 **0B0001** (mm2) 39711 **0B01** (1) 39712 **0C** (mm2) 39713 (4/mmm) 39714 **1173** (1) 39715-39717 **11811** (1) 39718-39724 (m) 39725 **1191** (1) 39726-39734 (m) 39735 **1254** (1) 39736-39757 (m) 39758-39760 **12621** (1) 39761-39789 (m) 39790-39793 **12702** (m) 39794,39795 **127101** (1) 39796 (m) 39797,39798 **1272** (1) 39799-39894 (m) 39895-39898 **12801** (1) 39899-39918 (m) 39919-39922 **129** (1) 39923-39934 (m) 39935-39938 **1335** (1) 39939-39941 **13431** (1) 39942-40000 (m) 40001 **13512** (1) 40002-40026 **135201** (1) 40027-40038 **1353** (1) 40039-40217 (m) 40218 **136011** (1) 40219,40220 **13611** (1) 40221-40327 (m) 40328-40330 **137001** (1) 40331-40335 (m) 40336 **1371** (1) 40337-40579 (m) 40580-40586 **1416** (1) 40587-40589 (m) 40590-40592 **14241** (1) 40593-40620 (m) 40621-40624 **14322** (1) 40625-40646 (m) 40647-40649 **143301** (1) 40650-40659 (m) 40660-40663 **1434** (1) 40664-40810 (m) 40811-40817 **14403** (1) 40818 **144111** (1) 40819-40824 (m) 40825 **14421** (1) 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43930-43936 **16302** (1) 43937-43962 (m) 43963 **163101** (1) 43964-43993 (m) 43994,43995 **1632** (1) 43996-44440 (m) 44441-44453 **16401** (1) 44454-44578 (m) 44579-44586 **165** (1) 44587-44832 (m) 44833-44848 **17031** (1) 44849 (m) 44850 **17112** (1) 44851-44863 (m) 44864 **171201** (1) 44865-44869 (m) 44870 **1713** (1) 44871-44940 (m) 44941-44946 **172011** (1) 44947,44948 **17211** (1) 44949-45030 (m) 45031-45034 **173001** (1) 45035-45043 (m) 45044-45047 **1731** (1) 45048-45369 (m) 45370-45378 **18021** (1) 45379-45384 (m) 45385 **18102** (1) 45386,45387 **181101** (1) 45388-45390 (m) 45391 **1812** (1) 45392-45437 (m) 45438-45441 **18201** (1) 45442-45462 (m) 45463-45467 **183** (1) 45468-45561 (m) 45562-45572 **19011** (1) 45573,45574 **191001** (1) 45575 (m) 45576 **1911** (1) 45577-45599 (m) 45600,45601 **1A001** (m) 45602 **1A1** (1) 45603-45609 (m) 45610-45612 **2064** (2) 45613 **2082** (1) 45614 **20A** (2) 45615 **2145** (mm2) 45616 **21531** (1) 45617-45620 (m) 45621,45622 **21612** (1) 45623 **216201** (1) 45624-45626 (m) 45627 (mm2) 45628 **2163** (1) 45629-45640 (m) 45641-45643 **21711** (1) 45644-45655 (m) 45656 **2181** (1) 45657-45672 (m) 45673,45674 (mm2) 45675,45676 **2226** (2) 45677 **22341** (1) 45678-45683 (m) 45684,45685 **22422** (1) 45686-45702 (-1) 45703 (2) 45704-45708 **224301** (1) 45709-45711 (2) 45712 (m) 45713 **2244** (1) 45714-45742 (2) 45743-45745 (m) 45746 **225111** (1) 45747 **22521** (1) 45748-45834 (m) 45835,45836 **226002** (2) 45837 **22602** (1) 45838-45844 (2) 45845 **226101** (1) 45846-45857 **2262** (1) 45858-45967 (-1) 45968 (2) 45969-45977 (m) 45978-45981 **22701** (1) 45982-46018 (m) 46019,46020 **228** (1) 46021-46047 (2) 46048-46050 (m) 46051-46054 **23151** (m) 46055-46057 **23232** (1) 46058-46072 (m) 46073-46075 **232401** (1) 46076-46083 (m) 46084-46087 **2325** (1) 46088-46107 (m) 46108-46110 **23313** (1) 46111-46124 **233211** (1) 46125-46146 **23331** (1) 46147-46278 (m) 46279-46283 **234021** (2) 46284 **234102** (m) 46285,46286 **23412** (1) 46287-46361 (m) 46362 **234201** (1) 46363-46403 (m) 46404-46407 **2343** (1) 46408-46646 (m) 46647-46654 **235011** (1) 46655-46664 **23511** (1) 46665-46851 (m) 46852-46857 **236001** (1) 46858-46867 (2) 46868 (m) 46869-46871 **2361** (1) 46872-47110 (m) 47111-47119 **24042** (1) 47120 (2) 47121-47123 (2/m) 47124 **240501** (m) 47125 (mm2) 47126 **2406** (1) 47127 (2) 47128 **24123** (1) 47129-47137 (m) 47138 **24141** (1) 47139-47196 (m) 47197-47199 **24204** (1) 47200,47201 (mm2) 47202 **242121** (1) 47203-47205 (m)

47206 **242202** (2) 47207,47208 (m) 47209 **24222** (1) 47210-47307 (2) 47308-47310 (m) 47311,47312 (mm2) 47313 **242301** (1) 47314-47346 (m) 47347,47348 **2424** (1) 47349-47494 (-1) 47495,47496 (2) 47497-47507 (m) 47508-47517 **24303** (1) 47518-47524 **243111** (1) 47525-47547 **24321** (1) 47548-47950 (m) 47951-47955 **244002** (2) 47956,47957 (m) 47958 **24402** (1) 47959-48014 (-1) 48015 (2) 48016-48019 (m) 48020,48021 (2/m) 48022 **244101** (1) 48023-48077 (2) 48078 (m) 48079-48082 (mm2) 48083 **2442** (1) 48084-48608 (2) 48609-48617 (m) 48618-48627 **24501** (1) 48628-48758 (m) 48759-48764 **246** (1) 48765-48893 (-1) 48894 (2) 48895-48901 (m) 48902-48908 (2/m) 48909 (mm2) 48910 **250221** (1) 48911,48912 **250302** (m) 48913 **25032** (1) 48914-48916 (m) 48917 **2505** (1) 48918-48925 (2) 48926 (m) 48927 **251112** (1) 48928,48929 **25113** (1) 48930-48938 **251211** (1) 48939-48955 **25131** (1) 48956-49053 (m) 49054,49055 **252021** (1) 49056,49057 **252102** (1) 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50897,50898 (m) 50899-50906 **27111** (1) 50907-50930 **272001** (1) 50931-50933 (2) 50934 (m) 50935 **2721** (1) 50936-51050 (m) 51051-51059 **280101** (m) 51060 **2802** (1) 51061-51063 (2) 51064 (m) 51065 **28101** (1) 51066-51069 **282** (1) 51070-51097 (-1) 51098 (2) 51099-51101 (m) 51102-51105 (2/m) 51106 (mm2) 51107 **290001** (m) 51108 **2901** (1) 51109,51110 (2) 51111 (mm2) 51112 **2A** (1) 51113 (2) 51114 (mm2) 51115 **305301** (m) 51116 **307101** (1) 51117 (m) 51118 **31332** (1) 51119 **3135** (1) 51120 **31413** (1) 51121 **314211** (1) 51122,51123 (m) 51124 **31431** (1) 51125-51129 (m) 51130 **315021** (1) 51131 (m) 51132 **31512** (1) 51133-51138 **315201** (1) 51139-51141 (m) 51142 **3153** (1) 51143-51147 (m) 51148 **31611** (1) 51149-51158 (m) 51159 **317001** (1) 51160 (m) 51161 **3171** (1) 51162,51163 (m) 51164-51166 **32142** (1) 51167 (m) 51168,51169 **3216** (1) 51170 (m) 51171 **32223** (1) 51172,51173 (m) 51174-51179 **322311** (1) 51180-51189 (m) 51190 **32241** (1) 51191-51218 (m) 51219-51225 **32304** (1) 51226 **323121** (1) 51227,51228 (m) 51229,51230 **323202** (1) 51231-51233 (m) 51234 **32322** (1) 51235-51290 (m) 51291-51293 **323301** (1) 51294-51317 (m) 51318-51320 **3234** (1) 51321-51376 (m) 51377-51385 **32403** (1) 51386,51387 (m) 51388-51390 **324111** (1) 51391-51413 **32421** (1) 51414-51572 (m) 51573-51580 **325002** (1) 51581 (m) 51582 **32502** (1) 51583-51598 (m) 51599,51600 **325101** (1) 51601-51626 (m) 51627-51629 **3252** (1) 51630-51753 (m) 51754-51765 **32601** (1) 51766-51805 (m) 51806-51812 **327** (1) 51813-51825 (m) 51826-51832 **33033** (1) 51833,51834 **33051** (1) 51835 **33114** (1) 51836 **331221** (1) 51837-51846 (m) 51847 **33132** (1) 51848-51880 **331401** (1) 51881-51886 (m) 51887 **3315** (1) 51888-51902 (m) 51903-51907 **332031** (1) 51908,51909 **332112** (1) 51910-51913 **33213** (1) 51914-51939 **332211** (1) 51940-51983 (m) 51984 **33231** (1) 51985-52122 (m) 52123,52124 **333021** (1) 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(1) 55042-55201 (m) 55202,55203 **424002** (1) 55204 (2/m) 55205 (mm2) 55206 **42402** (1) 55207-55230 (2) 55231 **424101** (1) 55232-55248 (m) 55249 **4242** (1) 55250-55339 (2) 55340 (m) 55341-55343 (2/m) 55344 (mm2) 55345 **42501** (1) 55346-55372 (m) 55373 **426** (1) 55374-55379 (m) 55380 **430203** (2) 55381 (m) 55382 **430221** (1) 55383-55385 (m) 55386 **43032** (1) 55387-55397 **430401** (1) 55398,55399 (m) 55400 **4305** (1) 55401-55413 (m) 55414 **431112** (1) 55415-55419 **43113** (1) 55420-55437 **431211** (1) 55438-55455 **43131** (1) 55456-55549 (m) 55550,55551 **432021** (1) 55552-55555 (2) 55556 (m) 55557 **432102** (2) 55558 (m) 55559,55560 **43212** (1) 55561-55616 (m) 55617 **432201** (1) 55618-55639 (m) 55640,55641 **4323** (1) 55642-55779 (m) 55780-55786 **433011** (1) 55787-55794 **43311** (1) 55795-55913 **434001** (1) 55914-55919 (m) 55920 (mm2) 55921 **4341** (1) 55922-56008 (m) 56009-56013 **440121** (1) 56014,56015 **440202** (m) 56016 **44022** (1) 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**055111** (1) 57837,57838 **05521** (1) 57839-57903 (m) 57904 **05602** (1) 57905-57907 **056101** (1) 57908-57912 **0562** (1) 57913-58162 (2) 58163,58164 (m) 58165-58176 (mm2) 58177 **05701** (1) 58178-58202 (m) 58203-58205 **058** (1) 58206-58265 (2) 58266 (m) 58267-58274 (mm2) 58275,58276 **06232** (1) 58277-58279 (2) 58280 **062401** (m) 58281,58282 **0625** (1) 58283-58293 (m) 58294,58295 **063211** (1) 58296 **06331** (1) 58297-58327 (m) 58328-58331 **06412** (1) 58332-58345 **064201** (1) 58346-58353 **0643** (1) 58354-58530 (2) 58531-58534 (m) 58535-58553 **06511** (1) 58554-58624 **066001** (1) 58625-58628 **0661** (1) 58629-58847 (2) 58848 (m) 58849-58867 (mm2) 58868 **07141** (1) 58869-58872 **072202** (m) 58873 **07222** (1) 58874 **072301** (1) 58875 **0724** (1) 58876-58899 (2) 58900 (m) 58901-58906 (mm2) 58907 **073111** (1) 58908,58909 **07321** (1) 58910-58951 **07402** (1) 58952-58954 **074101** (1) 58955-58958 (m) 58959-58962 **0742** (1) 58963-59151 (m) 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(1) 65857-65868 (m) 65869-65872 **2524** (1) 65873-65971 (m) 65972 **25303** (1) 65973-65976 **253111** (1) 65977-65992 **25321** (1) 65993-66210 (m) 66211,66212 **25402** (1) 66213-66237 **254101** (1) 66238-66264 (m) 66265,66266 **2542** (1) 66267-66578 (m) 66579-66583 (mm2) 66584 **25501** (1) 66585-66653 (m) 66654-66658 **256** (1) 66659-66727 (m) 66728-66734 (mm2) 66735 **26014** (m) 66736 **260221** (1) 66737 **26032** (1) 66738-66741 (m) 66742 **260401** (1) 66743,66744 (m) 66745 **2605** (1) 66746-66748 (m) 66749 **261031** (1) 66750 **26113** (1) 66751-66756 **261211** (1) 66757-66763 **26131** (1) 66764-66797 (m) 66798-66800 **26212** (1) 66801-66825 **262201** (1) 66826-66840 **2623** (1) 66841-66941 (2) 66942 (m) 66943-66950 **263011** (1) 66951 **26311** (1) 66952-67052 **264001** (1) 67053-67059 **2641** (1) 67060-67246 (2) 67247 (m) 67248-67255 **270121** (m) 67256 **27022** (1) 67257,67258 (m) 67259 **270301** (1) 67260 (m) 67261 **2704** (1) 67262 (m) 67263-67265 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68058-68079 (m) 68080-68082 **3334** (1) 68083-68142 (m) 68143-68147 **334012** (1) 68148 **33403** (1) 68149-68160 **334111** (1) 68161-68189 **33421** (1) 68190-68323 (m) 68324,68325 **33502** (1) 68326-68341 **335101** (1) 68342-68356 (m) 68357-68359 **3352** (1) 68360-68465 (m) 68466-68468 **33601** (1) 68469-68495 (m) 68496 **337** (1) 68497-68513 (m) 68514,68515 **34015** (1) 68516 **340231** (1) 68517,68518 (m) 68519 **34033** (1) 68520-68530 **340411** (1) 68531-68536 (m) 68537 **34051** (1) 68538-68547 (m) 68548,68549 **34114** (1) 68550-68556 **341221** (1) 68557-68567 (m) 68568 **341302** (1) 68569 **34132** (1) 68570-68636 **341401** (1) 68637-68649 (m) 68650,68651 **3415** (1) 68652-68674 (m) 68675 **342031** (1) 68676,68677 (m) 68678 **342112** (1) 68679 **34213** (1) 68680-68710 (m) 68711 **342211** (1) 68712-68752 (m) 68753 **34231** (1) 68754-68906 (m) 68907-68909 **343021** (1) 68910-68912 **343102** (1) 68913-68915 **34312** (1) 68916-69004 (m) 69005 **343201** (1) 69006-69046 (m) 69047-69049 **3433** (1) 69050-69180 (m) 69181-69188 **344011** (1) 69189-69199 **34411** (1) 69200-69325 (m) 69326 **345001** (1) 69327-69331 (m) 69332,69333 **3451** (1) 69334-69411 (m) 69412-69418 **35023** (1) 69419-69423 **35041** (1) 69424-69441 **35104** (1) 69442,69443 **351121** (1) 69444,69445 **35122** (1) 69446-69484 **351301** (1) 69485-69492 **3514** (1) 69493-69533 (m) 69534-69536 **35203** (1) 69537,69538 **352111** (1) 69539-69544 **35221** (1) 69545-69662 (m) 69663 **35302** (1) 69664-69681 **353101** (1) 69682-69699 **3532** (1) 69700-69806 (m) 69807-69814 **35401** (1) 69815-69843 (m) 69844 **355** (1) 69845-69867 (m) 69868-69871 **36013** (1) 69872 (m) 69873 **36031** (1) 69874-69882 (m) 69883 **36112** (1) 69884-69888 **3613** (1) 69889-69918 (m) 69919-69921 **36211** (1) 69922-69962 (m) 69963 **363001** (1) 69964-69966 **3631** (1) 69967-70011 (m) 70012-70016 (3m) 70017 **37021** (1) 70018 **3712** (1) 70019-70029 **37201** (1) 70030-70036 **373** (1) 70037-70042 (m) 70043-70045 **3811** (1) 70046-70050 (m) 70051-70053 **391** (m) 70054 **413212** (1) 70055 **41323** (1) 70056 **413311** (1) 70057 **41341** (1) 70058 **414121** (1) 70059,70060 **415012** (1) 70061 **41503** (1) 70062 **415111** (1) 70063 **41521** (1) 70064 **42115** (m) 70065 **421231** (1) 70066 **421312** (m) 70067 **42133** (1) 70068-70073 (m) 70074,70075 **421411** (1) 70076-70078 **42151** (1) 70079-70086 (m) 70087 **422041** (m) 70088 (mm2) 70089 **422122** (1) 70090 **42214** (1) 70091-70096 **422203** (m) 70097 **422221** (1) 70098-70108 (m) 70109-70112 **422302** (1) 70113-70115 **42232** (1) 70116-70158 (2) 70159 (m) 70160-70166 **422401** (1) 70167-70172 (m) 70173 (mm2) 70174,70175 **4225** (1) 70176-70188 (m) 70189-70193 **423031** (1) 70194 **423112** (1) 70195,70196 (m) 70197 **42313** (1) 70198-70217 (m) 70218,70219 **423211** (1) 70220-70245 **42331** (1) 70246-70330 (m) 70331,70332 **424021** (1) 70333-70336 **424102** (1) 70337,70338 **42412** (1) 70339-70374 (m) 70375-70380 **424201** (1) 70381-70393 (m) 70394-70396 **4243** (1) 70397-70442 (2) 70443,70444 (m) 70445-70452 **425011** (1) 70453-70455 **42511** (1) 70456-70496 **426001** (1) 70497-70499 (mm2) 70500 **4261** (1) 70501-70512 (m) 70513-70515 **430222** (1) 70516 (m) 70517 **430321** (1) 70518,70519 **43042** (1) 70520 **430501** (m) 70521,70522 **431113** (1) 70523 **431131** (1) 70524-70526 **431212** (1) 70527-70532

43123 (1) 70533-70541 (m) 70542,70543 **431311** (1) 70544-70555 **43141** (1) 70556-70575 (m) 70576,70577 **432022** (1) 70578,70579 **43204** (1) 70580 **432121** (1) 70581-70598 (m) 70599,70600 **432202** (1) 70601-70604 (m) 70605 **43222** (1) 70606-70655 **432301** (1) 70656-70667 (m) 70668 **4324** (1) 70669-70696 (m) 70697-70702 (mm2) 70703 **43303** (1) 70704-70711 (m) 70712 **433111** (1) 70713-70733 **43321** (1) 70734-70826 (m) 70827-70829 **43402** (1) 70830-70839 **434101** (1) 70840-70849 (m) 70850,70851 **4342** (1) 70852-70900 (m) 70901-70907 **43501** (1) 70908-70925 (m) 70926,70927 **436** (1) 70928-70935 (m) 70936-70939 (mm2) 70940 **440041** (4mm) 70941 **440122** (1) 70942 **44014** (m) 70943 **440221** (1) 70944-70946 (m) 70947,70948 **440302** (1) 70949 **44032** (1) 70950-70952 (m) 70953 (mm2) 70954 **440401** (1) 70955 (m) 70956 (mm2) 70957 **4405** (m) 70958,70959 **441031** (1) 70960,70961 **441112** (1) 70962 **44113** (1) 70963-70971 (m) 70972 **441211** (1) 70973-70986 (m) 70987 **44131** (1) 70988-71010 (m) 71011-71013 **442102** (1) 71014 **44212** (1) 71015-71039 (m) 71040 **442201** (1) 71041-71050 (m) 71051,71052 **4423** (1) 71053-71083 (2) 71084 (m) 71085-71091 **443011** (1) 71092-71094 **44311** (1) 71095-71131 (m) 71132 **444001** (1) 71133,71134 (4mm) 71135 **4441** (1) 71136-71160 (2) 71161 (m) 71162-71167 **450121** (1) 71168 **45022** (1) 71169-71171 (m) 71172 **450301** (1) 71173 (m) 71174,71175 **4504** (1) 71176 (m) 71177 (4mm) 71178 **451111** (1) 71179,71180 **45121** (1) 71181-71190 **45202** (1) 71191,71192 **452101** (1) 71193-71195 (m) 71196 **4522** (1) 71197-71210 (m) 71211-71214 **45301** (1) 71215-71219 (m) 71220-71222 **454** (1) 71223-71227 (m) 71228-71232 **46111** (1) 71233-71235 **462001** (m) 71236 **4621** (1) 71237-71239 (m) 71240 (mm2) 71241 **4702** (m) 71242 **472** (1) 71243 (m) 71244-71246 (mm2) 71247 **4801** (m) 71248 **49** (4mm) 71249 **512113** (1) 71250 **512131** (1) 71251-71253 **512212** (1) 71254,71255 **51223** (1) 71256-71259 **512311** (1) 71260-71262 **51241** (1) 71263,71264 **513022** (1) 71265 **513103** (1) 71266 **513121** (1) 71267-71273 **513202** (1) 71274 **51322** (1) 71275-71279 **513301** (1) 71280 **5134** (1) 71281 **514012** (1) 71282,71283 **51403** (1) 71284,71285 **514111** (1) 71286-71290 **51421** (1) 71291 **51502** (1) 71292 **520051** (m) 71293 **520132** (1) 71294 **52015** (1) 71295-71297 **520231** (1) 71298-71305 (m) 71306 **520312** (1) 71307,71308 **52033** (1) 71309-71326 (m) 71327,71328 **520411** (1) 71329-71337 (m) 71338 **52051** (1) 71339-71348 (m) 71349 **521041** (1) 71350 **521122** (1) 71351-71353 **52114** (1) 71354-71365 **521221** (1) 71366-71385 (m) 71386 **521302** (1) 71387-71389 **52132** (1) 71390-71449 **521401** (1) 71450-71460 (m) 71461 **5215** (1) 71462-71470 (m) 71471 **522031** (1) 71472-71475 **522112** (1) 71476-71478 **52213** (1) 71479-71503 (m) 71504 **522211** (1) 71505-71533 (m) 71534 **52231** (1) 71535-71600 (m) 71601,71602 **523021** (1) 71603-71606 **523102** (1) 71607,71608 **52312** (1) 71609-71645 (m) 71646 **523201** (1) 71647-71657 (m) 71658 **5233** (1) 71659-71679 (m) 71680,71681 **524011** (1) 71682-71684 **52411** (1) 71685-71701 (m) 71702 **525001** (m) 71703 **5251** (1) 71704-71707 **530131** (1) 71708,71709 **53023** (1) 71710-71716 **530311** (1) 71717-71720 **53041** (1) 71721-71734 **53104** (1) 71735-71737 **531121** (1) 71738-71741 **53122** (1) 71742-71770 **531301** (1) 71771-71776 **5314** (1) 71777-71788 **53203** (1) 71789-71792 **532111** (1) 71793-71798 **53221** (1) 71799-71843 (m) 71844 **53302** (1) 71845-71850 **533101** (1) 71851-71855 **5332** (1) 71856-71871 (m) 71872 **53401** (1) 71873-71877 **535** (m) 71878 **54013** (1) 71879,71880 **54031** (1) 71881-71885 (m) 71886 **54112** (1) 71887-71892 **5413** (1) 71893-71900 (m) 71901 **54211** (1) 71902-71912 **543001** (1) 71913 **5431** (1) 71914-71917 (m) 71918,71919 **5512** (1) 71920,71921 **55201** (1) 71922 (m) 71923 **553** (1) 71924 **5611** (1) 71925 **571** (m) 71926 **610204** (m) 71927 **610222** (1) 71928 (m) 71929 **611113** (1) 71930,71931 **611131** (1) 71932,71933 **611212** (1) 71934-71936 **61123** (1) 71937 **611311** (1) 71938,71939 **612022** (1) 71940 (m) 71941 **612103** (m) 71942 **612121** (1) 71943-71947 (m) 71948 **612202** (1) 71949 (m) 71950 **61222** (m) 71951 **61303** (1) 71952 **613111** (1) 71953,71954 **620122** (1) 71955 **620221** (1) 71956 **62032** (1) 71957 **621031** (1) 71958 **621112** (1) 71959 **62113** (1) 71960 **621211** (1) 71961-71963 **622102** (1) 71964 **62212** (1) 71965 **630121** (m) 71966 **630301** (m) 71967 **632101** (1) 71968 **6322** (m) 71969 **700033** (3m) 71970 **700051** (m) 71971 **700132** (1) 71972 **70015** (1) 71973 (m) 71974 **700213** (m) 71975 **700231** (1) 71976-71979 (m) 71980,71981 **700312** (m) 71982 **70033** (1) 71983-71988 (m) 71989 (3m) 71990 **700411** (1) 71991,71992 (m) 71993 **70051** (1) 71994 (m) 71995 **701041** (m) 71996 **701122** (1) 71997,71998 **70114** (1) 71999-72002 **701221** (1) 72003-72008 (m) 72009 **701302** (1) 72010 **70132** (1) 72011-72021 (m) 72022,72023 **701401** (1) 72024,72025 (m) 72026 **7015** (1) 72027 (m) 72028 **702031** (1) 72029 (m) 72030 **702112** (m) 72031 **70213** (1) 72032-72035 (m) 72036,72037 **702211** (1) 72038-72042 (m) 72043 **70231** (1) 72044-72049 (m) 72050,72051 **703021** (1) 72052 **70312** (1) 72053-72056 (m) 72057 **703201** (1) 72058 (m) 72059 **7033** (1) 72060 **70411** (1) 72061,72062 **705001** (m) 72063 **7051** (m) 72064 **710131** (1) 72065 **71023** (1) 72066 (m) 72067 **71041** (1) 72068-72070 (m) 72071 **71104** (1) 72072 **711121** (1) 72073 **71122** (1) 72074-72076 **711301** (1) 72077 **7114** (1) 72078 (m) 72079 **712111** (1) 72080 **71221** (1) 72081-72086 (m) 72087 **71302** (1) 72088 **7132** (m) 72089 **71401** (m) 72090 **715** (m) 72091 **72013** (m) 72092 **72031** (m) 72093 **72112** (1) 72094 **7213** (m) 72095 **72211** (1) 72096 **7231** (m) 72097 **733** (3m) 72098

14-эдры: 01A3 (m) 72099 **0284** (1) 72100,72101 (2) 72102-72104 (m) 72105 (2/m) 72106 (mm2) 72107 (mmm) 72108 (4/mmm) 72109 **02921** (m) 72110,72111 **02A2** (1) 72112-72114 (mm2) 72115,72116 **02B01** (m) 72117 **02C** (mmm) 72118 **0365** (1) 72119-72121 (2) 72122 (mm2) 72123 **03731** (1) 72124-72126 (m) 72127,72128 **0383** (1) 72129-72149 (m) 72150-72153 **03911** (1) 72154,72155 (m) 72156 **03A1** (1) 72157-72161 (m) 72162 (mm2) 72163 **0446** (2) 72164,72165 (m) 72166-72168 (mm2) 72169,72170 **04541** (1) 72171-72173 (m) 72174 **04622** (2) 72175-72177 (2/m) 72178 **046301** (m) 72179 (mm2) 72180 **0464** (1) 72181-72204 (2) 72205-72208 (m) 72209-72212 (mm2) 72213 **04721** (1) 72214-72224 (m) 72225-72228 **04802** (2) 72229 **048101** (m) 72230 **0482** (1) 72231-72264 (-1) 72265,72266 (2) 72267-72274 (m) 72275-72279 (mm2) 72280 **04901** (1) 72281 (m) 72282-72285 **04A** (1) 72286,72287 (m) 72288 (mm2) 72289 **05351** (1) 72290 (m) 72291 **05432** (1) 72292 (mm2) 72293 **054401** (m) 72294 (4mm) 72295 **0545** (1) 72296-72309 (m) 72310 **05531** (1) 72311-72324 (m) 72325-72328 **05612** (1) 72329 **056201** (1) 72330 (m) 72331 **0563** (1) 72332-72395 (2) 72396-72398 (m) 72399-72410 **05711** (1) 72411-72423 (m) 72424,72425 **058001** (mm2) 72426 **0581** (1) 72427-72454 (m) 72455-72460 **0608** (-3m) 72461 (m-3m) 72462 **06242** (mm2) 72463 **0626** (1) 72464 (2) 72465 (m) 72466 (mm2) 72467 **06323** (m) 72468 **063311** (m) 72469 **06341** (1) 72470-72473 (m) 72474 **06422** (1) 72475-72477 (m) 72478 **064301** (1) 72479 (m) 72480 **0644** (1) 72481-72508 (2) 72509-72517 (m) 72518-72521 (2/m) 72522,72523 (mm2) 72524-72526 (mmm) 72527 **06521** (1) 72528-72544 (m) 72545-72549 **06602** (1) 72550 **066101** (1) 72551 (m) 72552,72553 **0662** (1) 72554-72627 (2) 72628-72633 (m) 72634-72642 (mm2) 72643 **06701** (1) 72644-72646 (m) 72647-72652 **068** (1) 72653-72657 (-1) 72658 (2) 72659-72661 (m) 72662-72664 (2/m) 72665 (4/mmm) 72666 **07151** (m) 72667 **07232** (m) 72668,72669 **0725** (1) 72670,72671 (m) 72672-72676 (mm2) 72677 **07331** (1) 72678-72683 (m) 72684-72688 **0743** (1) 72689-72735 (m) 72736-72742 **07511** (1) 72743-72754 (m) 72755,72756 **076001** (m) 72757 **0761** (1) 72758-72794 (2) 72795 (m) 72796-72801 (mm2) 72802,72803 **080402** (4/mmm) 72804 **0806** (mm2) 72805 **081311** (m) 72806 **08222** (2) 72807 (2/m) 72808 **082301** (m) 72809 (mm2) 72810 **0824** (1) 72811-72813 (2) 72814,72815 (m) 72816-72820 **08321** (1) 72821 (m) 72822,72823 **084101** (m) 72824 **0842** (1) 72825-72858 (2) 72859-72862 (m) 72863-72872 (2/m) 72873-72875 (mm2) 72876,72877 **08501** (1) 72878 (m) 72879-72883 **086** (1) 72884-72888 (2) 72889 (m) 72890-72894 **09032** (mm2) 72895 **09131** (1) 72896 (m) 72897 **0923** (1) 72898-72900 (2) 72901 (m) 72902-72905 **09311** (1) 72906 (m) 72907 **094001** (4mm) 72908 **0941** (1) 72909-72921 (m) 72922-72925 **0A04** (mm2) 72926 (4mm) 72927 (mmm) 72928 **0A22** (1) 72929-72931 (2) 72932 (m) 72933-72936 **0A301** (m) 72937 **0A4** (1) 72938 (m) 72939 (2/m) 72940,72941 (mm2) 72942 **0B21** (m)

72943,72944 (mm2) 72945 **0C02** (mm2) 72946 (-3m) 72947 **0E** (4/mmm) 72948 **1175** (m) 72949,72950 **11831** (1) 72951 **1193** (1) 72952-72954 (m) 72955,72956 **11A11** (1) 72957 **12641** (1) 72958,72959 **12722** (1) 72960 **1274** (1) 72961-72967 **12821** (1) 72968-72973 **1292** (1) 72974-72989 (m) 72990,72991 **12A01** (1) 72992,72993 **1337** (3m) 72994 **13451** (1) 72995-72997 **13532** (1) 72998-73001 (m) 73002,73003 **135401** (1) 73004 **1355** (1) 73005-73016 (m) 73017-73020 **13631** (1) 73021-73042 **13712** (1) 73043,73044 (m) 73045 **137201** (1) 73046 **1373** (1) 73047-73084 (m) 73085-73087 **13811** (1) 73088-73100 **1391** (1) 73101-73120 (m) 73121 **14342** (1) 73122,73123 **143501** (m) 73124,73125 **1436** (1) 73126,73127 **14423** (1) 73128,73129 **144311** (1) 73130,73131 **14441** (1) 73132-73154 **14522** (1) 73155-73169 **145301** (1) 73170-73174 (m) 73175,73176 **1454** (1) 73177-73232 (m) 73233-73238 **146111** (1) 73239 **14621** (1) 73240-73286 **14702** (1) 73287-73289 **147101** (1) 73290-73293 **1472** (1) 73294-73375 (m) 73376-73383 **14801** (1) 73384-73393 **149** (1) 73394-73398 (m) 73399,73400 **15152** (m) 73401 **1517** (m) 73402 **15233** (1) 73403 **152411** (1) 73404 **15251** (1) 73405-73410 **15332** (1) 73411-73422 **153401** (1) 73423-73425 **1535** (1) 73426-73443 (m) 73444,73445 **154211** (1) 73446 **15431** (1) 73447-73501 **15512** (1) 73502-73507 **155201** (1) 73508-73511 **1553** (1) 73512-73614 (m) 73615-73617 **15611** (1) 73618-73657 **157001** (1) 73658 **1571** (1) 73659-73723 (m) 73724,73725 **161321** (1) 73726 **16142** (1) 73727,73728 **161501** (1) 73729 **1616** (1) 73730,73731 (m) 73732,73733 **16223** (1) 73734-73736 **162311** (1) 73737-73739 **16241** (1) 73740-73756 **16322** (1) 73757-73768 (m) 73769 **163301** (1) 73770-73775 **1634** (1) 73776-73824 (m) 73825-73828 (3m) 73829 **164111** (1) 73830 **16421** (1) 73831-73869 **16502** (1) 73870,73871 **165101** (1) 73872-73875 **1652** (1) 73876-73980 (m) 73981-73983 **16601** (1) 73984-73994 **167** (1) 73995-74005 (m) 74006,74007 **17132** (1) 74008-74010 **1715** (1) 74011-74013 **17231** (1) 74014-74031 **17312** (1) 74032,74033 **173201** (1) 74034,74035 **1733** (1) 74036-74079 (m) 74080-74082 **17411** (1) 74083-74098 **175001** (1) 74099,74100 **1751** (1) 74101-74146 (m) 74147-74149 **1814** (1) 74150-74153 (m) 74154 **18221** (1) 74155-74157 **1832** (1) 74158-74185 (m) 74186-74188 **18401** (1) 74189-74191 **185** (1) 74192-74196 (m) 74197 **1913** (1) 74198,74199 (m) 74200 **1931** (1) 74201-74209 (m) 74210 **1A12** (1) 74211 **1B11** (m) 74212 **2066** (-3m) 74213 **20822** (mm2) 74214 **2084** (m) 74215 **20921** (1) 74216 **20A2** (2) 74217,74218 (2/m) 74219 **20B01** (m) 74220 **2183** (m) 74221,74222 **21A1** (1) 74223,74224 (m) 74225 **22442** (2) 74226 (mm2) 74227 **2246** (2) 74228 (mm2) 74229 **22523** (1) 74230,74231 **225311** (m) 74232 **22541** (1) 74233-74240 **22604** (2) 74241 **22622** (1) 74242-74250 (2) 74251 (mm2) 74252 **226301** (1) 74253 **2264** (1) 74254-74266 (2) 74267-74269 **22721** (1) 74270-74290 (m) 74291 **22802** (2) 74292 **228101** (m) 74293 **2282** (1) 74294-74307 (2) 74308-74312 **22901** (1) 74313-74316 (m) 74317,74318 **22A** (2) 74319 (2/m) 74320 **232601** (mm2) 74321 **233411** (1) 74322 (m) 74323 **23351** (1) 74324,74325 (m) 74326 **23414** (m) 74327 **234221** (1) 74328 (m) 74329 **23432** (1) 74330-74339 (m) 74340 **234401** (1) 74341-74343 (m) 74344,74345 **2345** (1) 74346-74351 (2) 74352 (m) 74353-74356 **23513** (1) 74357-74359 **235211** (1) 74360-74362 (m) 74363 **23531** (1) 74364-74396 (m) 74397-74399 **23612** (1) 74400-74409 **236201** (1) 74410-74413 (m) 74414 (mm2) 74415 **2363** (1) 74416-74462 (m) 74463-74467 (3m) 74468 **23711** (1) 74469-74489 **238001** (m) 74490 **2381** (1) 74491-74521 (m) 74522,74523 **24224** (2) 74524,74525 (2/m) 74526 **242321** (1) 74527 (2) 74528 **242402** (mm2) 74529,74530 **24242** (1) 74531-74535 (2) 74536 (m) 74537,74538 (mm2) 74539 **242501** (1) 74540 **2426** (2) 74541,74542 (m) 74543 (2/m) 74544,74545 **24305** (m) 74546 **243131** (1) 74547 (m) 74548 **24323** (1) 74549-74561 (m) 74562,74563 **243311** (1) 74564-74574 (m) 74575 **24341** (1) 74576-74613 **24404** (1) 74614 (2) 74615 **244121** (1) 74616-74618 **244202** (mm2) 74619 **24422** (1) 74620-74659 (-1) 74660 (2) 74661-74668 (m) 74669-74672 **244301** (1) 74673-74685 (2) 74686 (m) 74687-74690 **2444** (1) 74691-74736 (2) 74737-74739 (m) 74740-74743 **245111** (1) 74744-74748 **24521** (1) 74749-74829 (m) 74830-74833 **24602** (1) 74834-74839 (2) 74840,74841 **246101** (1) 74842-74849 (m) 74850-74852 **2462** (1) 74853-74922 (-1) 74923,74924 (2) 74925-74930 (m) 74931,74932 (2/m) 74933 (mm2) 74934,74935 **24701** (1) 74936-74947 (m) 74948-74952 **248** (1) 74953-74961 (2) 74962 (m) 74963 **250421** (m) 74964 **25052** (1) 74965 **2507** (m) 74966 **25133** (1) 74967 **251411** (1) 74968,74969 (m) 74970 **25151** (1) 74971-74974 (m) 74975 **25214** (1) 74976 (m) 74977,74978 **25232** (1) 74979-74995 (m) 74996-75002 **252401** (1) 75003,75004 (2) 75005 (m) 75006 **2525** (1) 75007-75017 (m) 75018-75021 **25313** (1) 75022-75028 **253211** (1) 75029,75030 (m) 75031,75032 **25331** (1) 75033-75101 (m) 75102-75109 **25412** (1) 75110-75124 (m) 75125,75126 **254201** (1) 75127-75132 (m) 75133 **2543** (1) 75134-75218 (2) 75219,75220 (m) 75221-75228 **25511** (1) 75229-75283 (m) 75284 **256001** (1) 75285,75286 (2) 75287 (m) 75288,75289 **2561** (1) 75290-75348 (m) 75349-75354 **260222** (mm2) 75355 **260321** (1) 75356 **260402** (mm2) 75357 **26042** (1) 75358 (mm2) 75359 **260501** (m) 75360,75361 **2606** (1) 75362 (mm2) 75363 **26105** (m) 75364 **261131** (1) 75365 **26123** (1) 75366-75369 (m) 75370 **261311** (1) 75371-75374 **26141** (1) 75375-75383 **26204** (2) 75384 **262121** (m) 75385 **26222** (1) 75386-75397 (2) 75398,75399 (m) 75400,75401 **262301** (1) 75402-75405 (m) 75406,75407 **2624** (1) 75408-75426 (2) 75427-75429 (m) 75430-75439 (2/m) 75440 (mm2) 75441,75442 **263111** (1) 75443 **26321** (1) 75444-75477 (m) 75478,75479 **26402** (1) 75480 **264101** (1) 75481,75482 (m) 75483 **2642** (1) 75484-75545 (2) 75546-75548 (m) 75549-75557 (mm2) 75558-75560 **26501** (1) 75561-75575 (m) 75576-75579 **266** (1) 75580-75590 (-1) 75591 (m) 75592,75593 (2/m) 75594,75595 (-3m) 75596 **27014** (m) 75597 **27032** (1) 75598,75599 (m) 75600,75601 **2705** (m) 75602,75603 **27113** (1) 75604 **27131** (1) 75605-75616 (m) 75617,75618 **27212** (1) 75619,75620 **272201** (m) 75621,75622 **2723** (1) 75623-75639 (m) 75640-75642 **27311** (1) 75643-75650 **274001** (m) 75651 **2741** (1) 75652-75676 (2) 75677 (m) 75678-75682 **28022** (mm2) 75683 **2804** (1) 75684 (m) 75685,75686 (mm2) 75687 **28121** (1) 75688-75690 **2822** (1) 75691-75696 (m) 75697-75701 (mm2) 75702,75703 **28301** (1) 75704,75705 (m) 75706 **284** (1) 75707-75710 (m) 75711-75713 **2903** (m) 75714,75715 **2921** (1) 75716 (m) 75717-75719 **2A02** (mm2) 75720 **2A2** (2/m) 75721 **2B01** (m) 75722 **323321** (m) 75723,75724 **32342** (1) 75725,75726 **323501** (m) 75727,75728 **3236** (m) 75729,75730 **324131** (1) 75731 **32423** (1) 75732-75735 **324311** (1) 75736-75739 **32441** (1) 75740-75750 **32504** (1) 75751 **325121** (1) 75752 (m) 75753 **32522** (1) 75754-75768 (m) 75769,75770 **325301** (1) 75771-75774 (m) 75775,75776 **3254** (1) 75777-75786 (m) 75787-75790 **326111** (1) 75791,75792 **32621** (1) 75793-75811 **32702** (1) 75812,75813 **327101** (1) 75814,75815 (m) 75816 **3272** (1) 75817-75824 (m) 75825,75826 **32801** (1) 75827-75829 **332312** (1) 75830 **33233** (1) 75831 **332411** (1) 75832,75833 **33251** (1) 75834,75835 **333221** (1) 75836-75839 **333302** (1) 75840 **33332** (1) 75841-75850 **333401** (1) 75851-75854 (m) 75855 **3335** (1) 75856-75858 **33413** (1) 75859-75862 **334211** (1) 75863-75869 **33431** (1) 75870-75896 **33512** (1) 75897-75906 **335201** (1) 75907-75912 (m) 75913,75914 **3353** (1) 75915-75938 (m) 75939-75943 **33611** (1) 75944-75960 **337001** (1) 75961 (m) 75962 **3371** (1) 75963-75974 (m) 75975,75976 **341141** (1) 75977 (m) 75978 **341222** (1) 75979 **34124** (1) 75980-75983 **341321** (1) 75984-75992 (m) 75993 **341402** (1) 75994 **34142** (1) 75995-76006 (m) 76007 **341501** (1) 76008,76009 **3416** (1) 76010-76012 **34205** (1) 76013 **342131** (1) 76014-76018 **342212** (1) 76019 **34223** (1) 76020-76043 **342311** (1) 76044-76069 **34241** (1) 76070-76107 **34304** (1) 76108,76109 **343121** (1) 76110-76115 **343202** (1) 76116 **34322** (1) 76117-76175 (m) 76176 **343301** (1) 76177-76196 (m) 76197 **3434** (1) 76198-76231 (m) 76232 **344111** (1) 76233-76242 **34421** (1) 76243-76305 **34502** (1) 76306-76312 **345101** (1) 76313-76323 **3452** (1) 76324-76356 (m) 76357-76359 **34601** (1) 76360-76367 **347** (1) 76368,76369 **35114** (1) 76370,76371 **351221** (1) 76372 (m) 76373 **35132** (1) 76374-76387 **351401** (1) 76388,76389 (m) 76390 **3515** (1) 76391-76393 **35213** (1) 76394-76400 **352211** (1) 76401-76403 **35231** (1) 76404-76454 **35312** (1) 76455-76467 (m) 76468 **353201** (1) 76469-76475 **3533** (1) 76476-76515 (m) 76516-76518 **35411** (1) 76519-76554 **355001** (1) 76555-76557 (m) 76558 **3551** (1) 76559-76575 (m) 76576 **36122** (1) 76577,76578 **3614** (1) 76579-76584 **36221** (1) 76585-76601 **3632** (1) 76602-76619 **36401** (1)

76620-76625 **365** (1) 76626-76628 (m) 76629 **3713** (1) 76630-76632 **3731** (1) 76633-76639 (m) 76640,76641 **383** (1) 76642 **414041** (4mm) 76643 **41414** (m) 76644 **414221** (m) 76645 **41432** (1) 76646 (m) 76647 (mm2) 76648 **414401** (mm2) 76649 **4145** (m) 76650 **41513** (1) 76651 **415211** (m) 76652 **41531** (1) 76653-76655 (m) 76656,76657 **41612** (1) 76658 (m) 76659 **416201** (m) 76660 **4163** (1) 76661,76662 (2) 76663 **41711** (1) 76664,76665 (m) 76666 **418001** (4mm) 76667 **4181** (1) 76668 (m) 76669 **422222** (2) 76670 **42224** (2) 76671 **422321** (1) 76672,76673 **42242** (1) 76674 (2) 76675 **422501** (1) 76676 **4226** (2) 76677 **423032** (m) 76678 **42305** (m) 76679 **423131** (1) 76680-76682 (m) 76683 **423212** (1) 76684,76685 **42323** (1) 76686-76693 (m) 76694 **423311** (1) 76695-76701 (m) 76702,76703 **42341** (1) 76704-76708 **42404** (1) 76709 (2) 76710 **424121** (1) 76711-76716 **424202** (2) 76717 (m) 76718 **42422** (1) 76719-76734 (2) 76735 (m) 76736-76738 **424301** (1) 76739-76744 (m) 76745 **4244** (1) 76746 (2) 76747 (m) 76748 (4mm) 76749 **425111** (1) 76750-76755 **42521** (1) 76756-76768 (m) 76769 **42602** (1) 76770-76772 (2) 76773 **426101** (1) 76774,76775 (m) 76776 **4262** (1) 76777-76781 (2) 76782 (m) 76783 **42701** (m) 76784-76786 **428** (1) 76787 (mm2) 76788 **430403** (3m) 76789 **430421** (m) 76790 **43052** (m) 76791 **4307** (3m) 76792 **431312** (1) 76793 **43133** (1) 76794 **431411** (1) 76795,76796 **43151** (1) 76797,76798 **432041** (m) 76799 **43214** (1) 76800 (m) 76801,76802 **432221** (1) 76803-76806 (m) 76807 **432302** (m) 76808 **43232** (1) 76809-76818 (m) 76819-76821 **432401** (1) 76822-76824 (m) 76825 **4325** (1) 76826 (m) 76827 **43313** (1) 76828-76835 **433211** (1) 76836-76840 (m) 76841-76843 **43331** (1) 76844-76866 (m) 76867-76871 **43412** (1) 76872-76881 **434201** (1) 76882-76888 **4343** (1) 76889-76897 (m) 76898,76899 **43511** (1) 76900-76912 (m) 76913,76914 **436001** (1) 76915 (m) 76916,76917 **4361** (1) 76918 (m) 76919,76920 **440042** (2) 76921 (mmm) 76922 **440123** (mm2) 76923 **440141** (1) 76924-76927 **440222** (1) 76928,76929 (2) 76930 (m) 76931 (mm2) 76932 **44024** (-1) 76933 (2) 76934-76936 **440321** (1) 76937-76946 (2) 76947,76948 (m) 76949-76951 **440402** (2) 76952 (m) 76953 (mm2) 76954 (mmm) 76955 **44042** (1) 76956-76960 (2) 76961 **440501** (1) 76962 (m) 76963 **4406** (m) 76964 (2/m) 76965 **441032** (m) 76966 **44105** (1) 76967 (m) 76968,76969 **441131** (1) 76970-76977 (m) 76978,76979 **441212** (1) 76980,76981 **44123** (1) 76982-76995 (m) 76996,76997 **441311** (1) 76998-77015 (m) 77016-77018 **44141** (1) 77019-77029 **44204** (1) 77030,77031 (2) 77032 **442121** (1) 77033-77036 (m) 77037 **442202** (2) 77038 (m) 77039 **44222** (1) 77040-77060 (-1) 77061 (2) 77062-77065 (m) 77066-77069 (2/m) 77070 (mm2) 77071,77072 **442301** (1) 77073-77080 (2) 77081 (m) 77082-77086 (mm2) 77087 **4424** (1) 77088-77095 (m) 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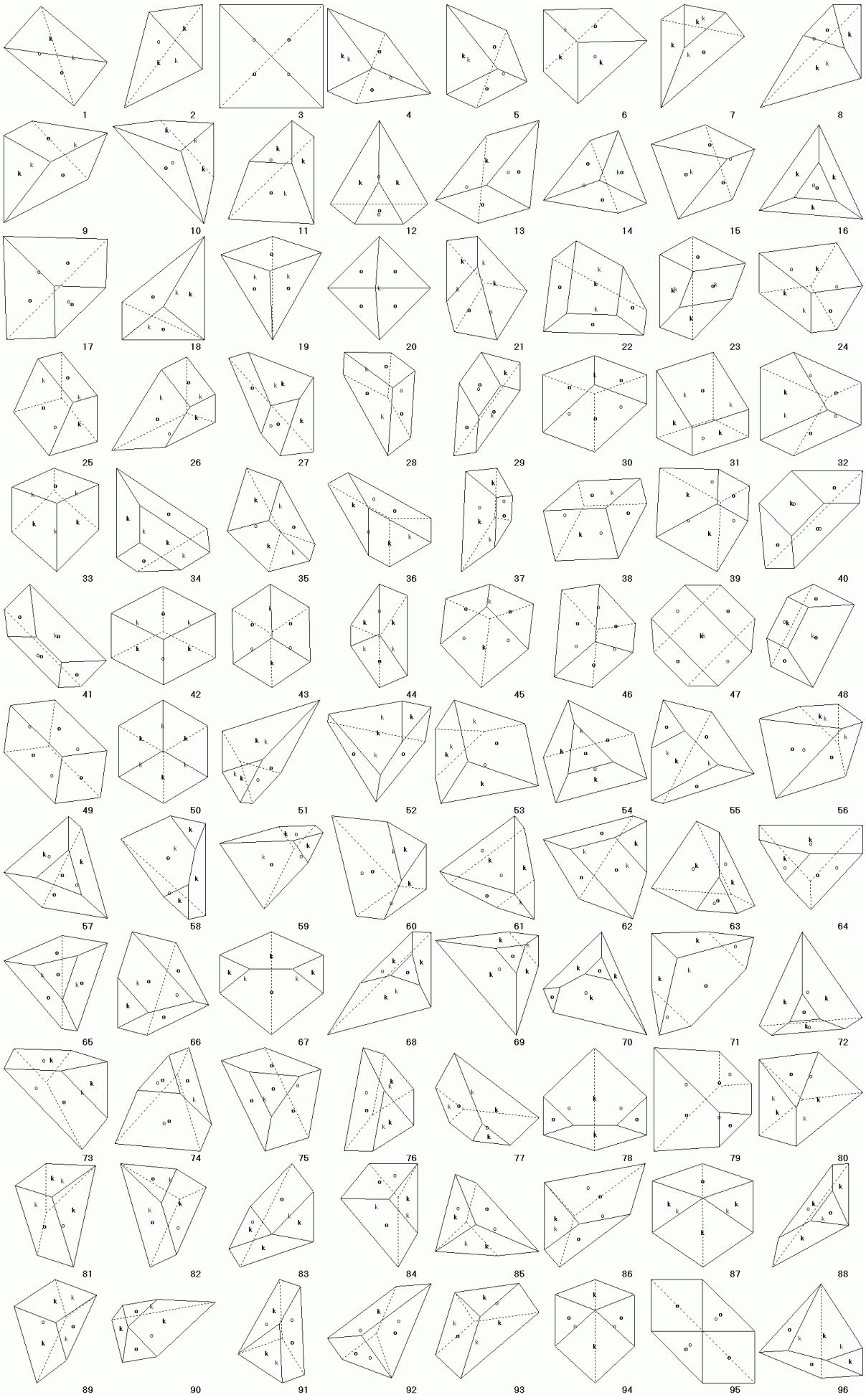

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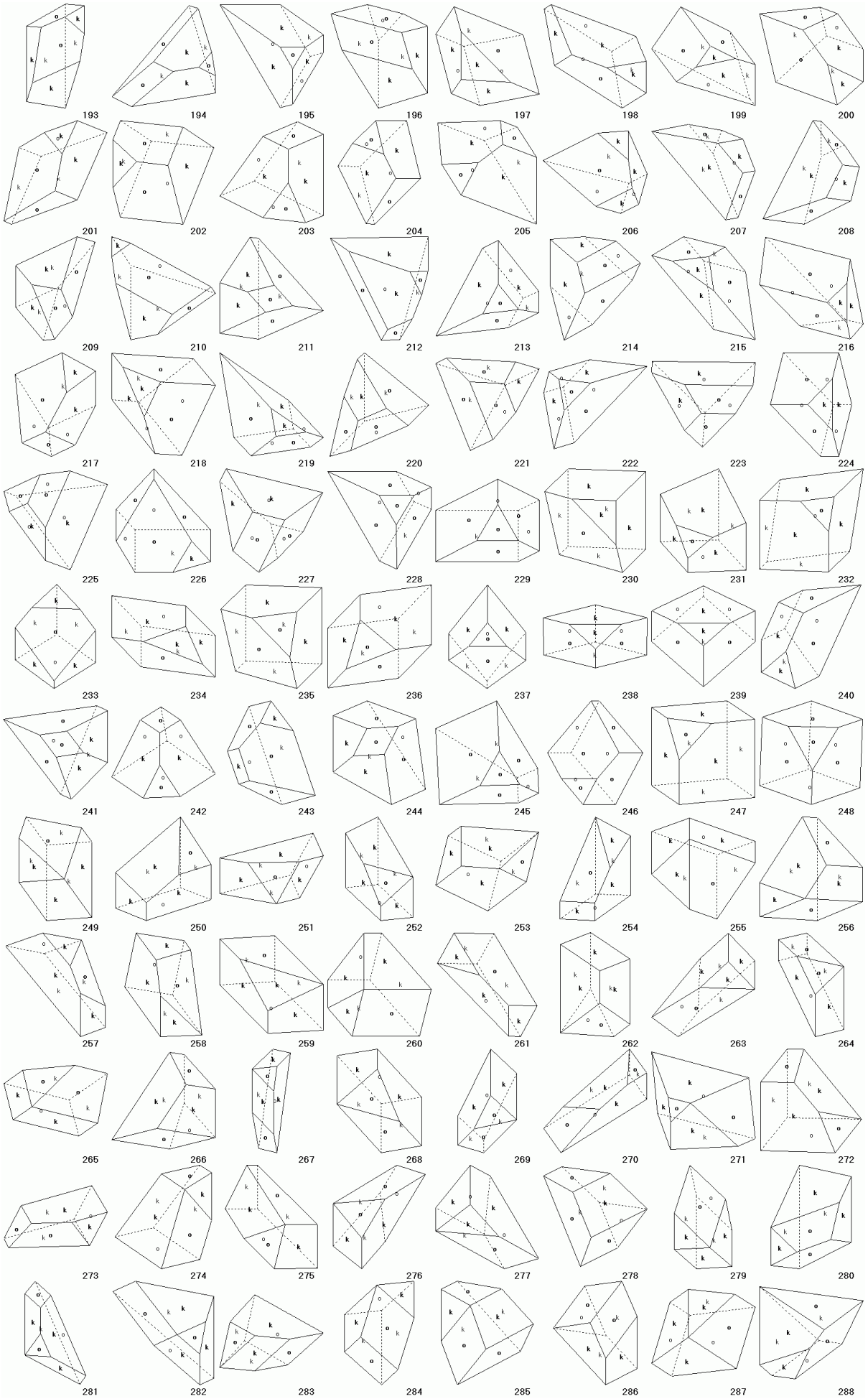
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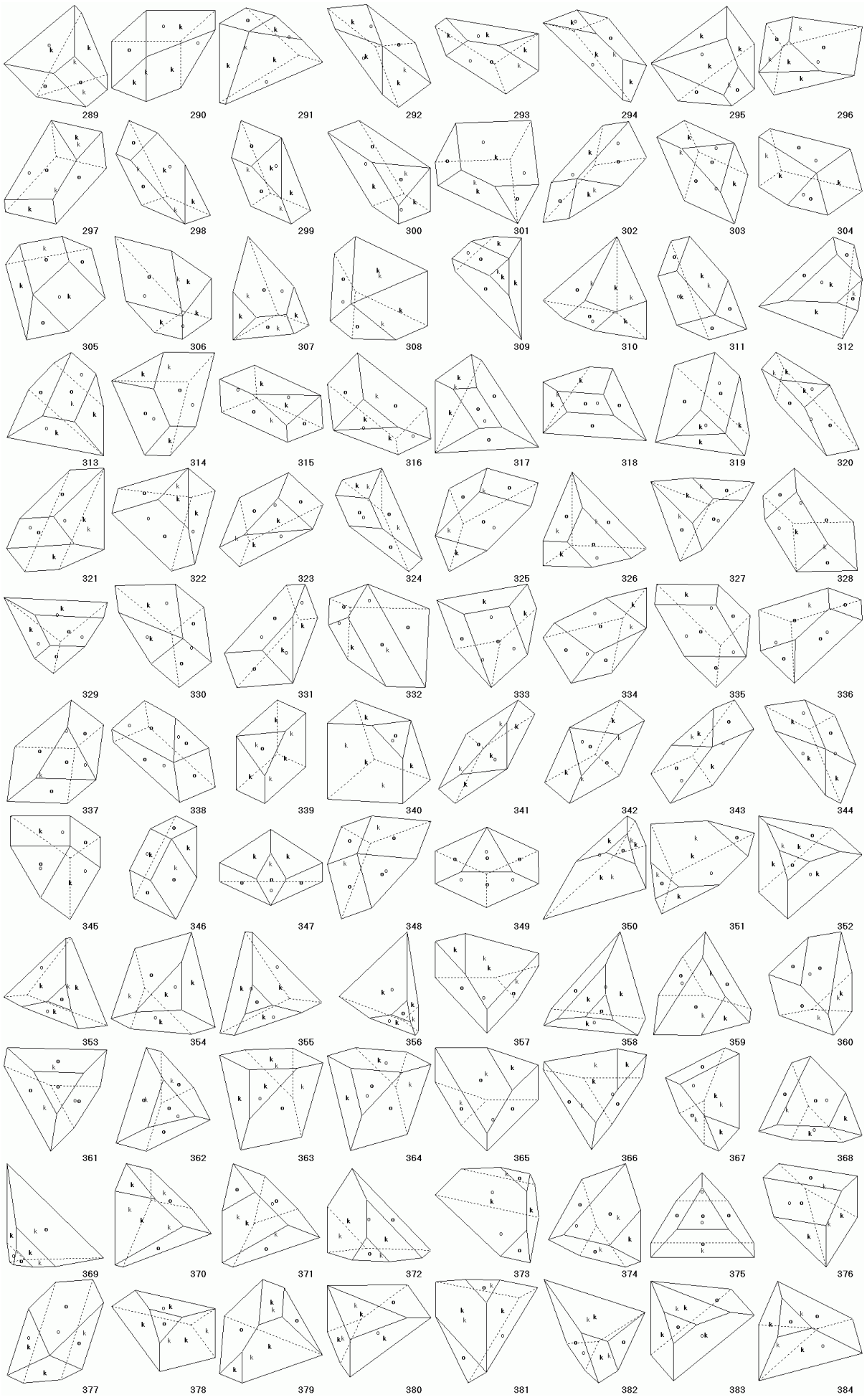
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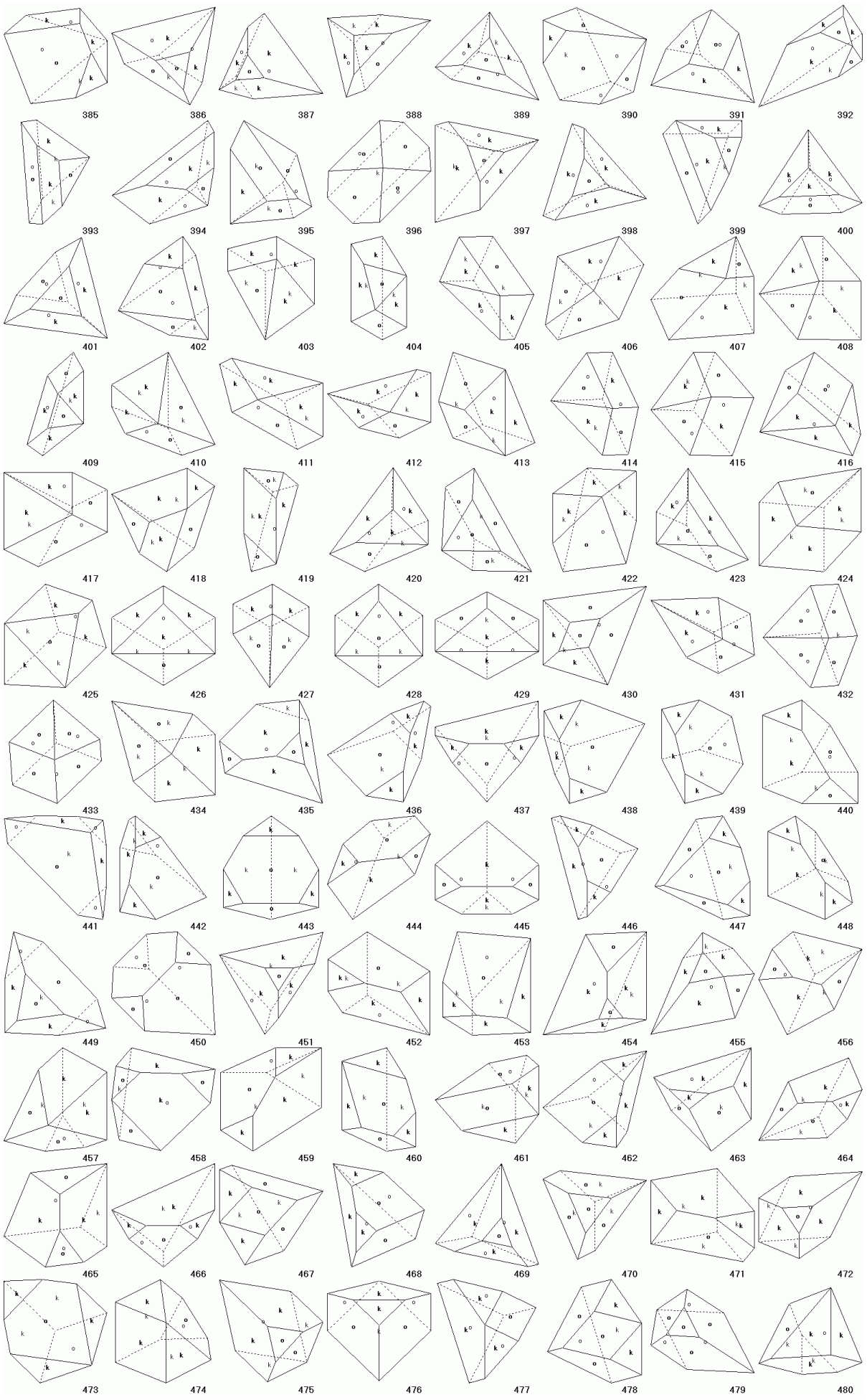
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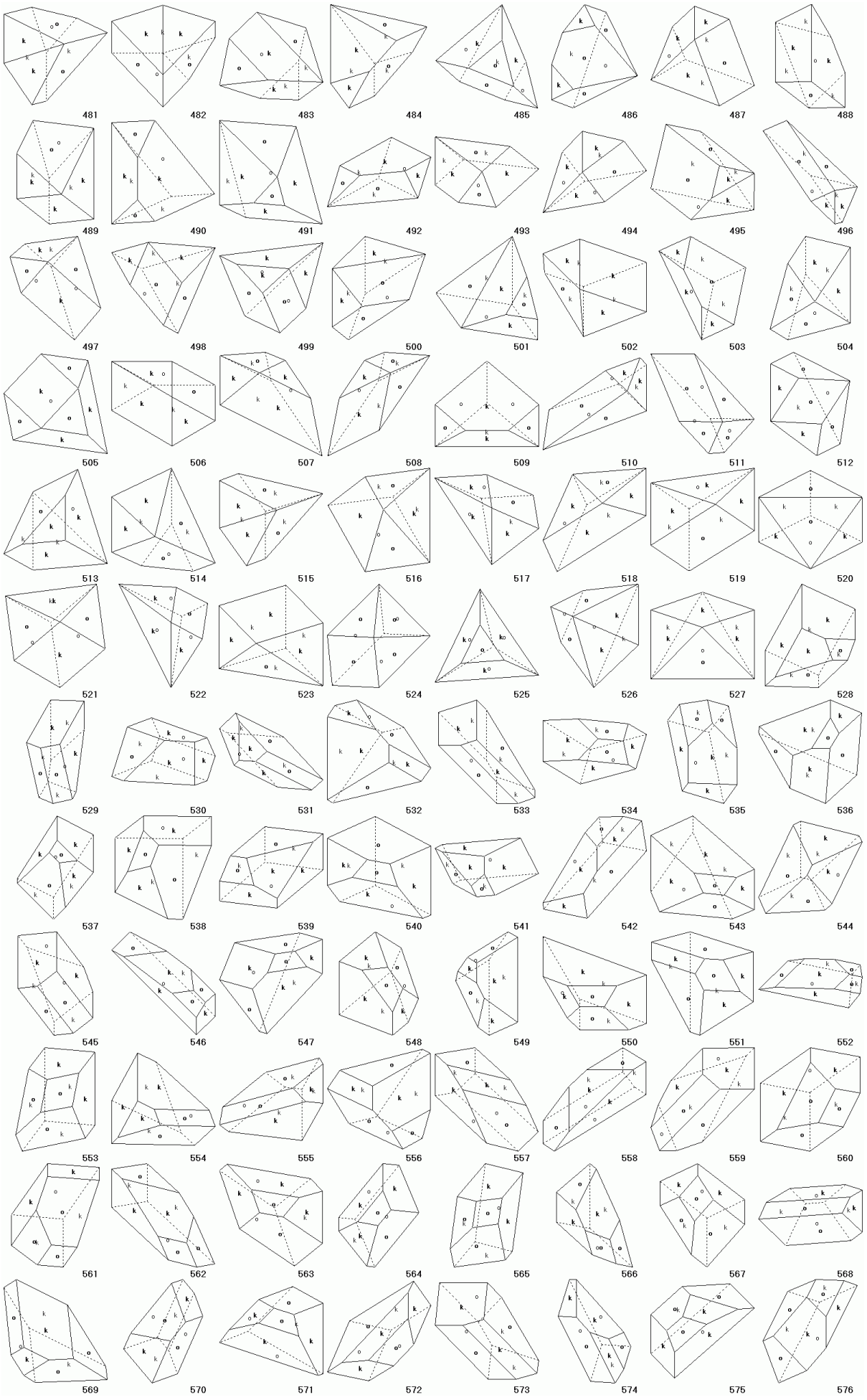
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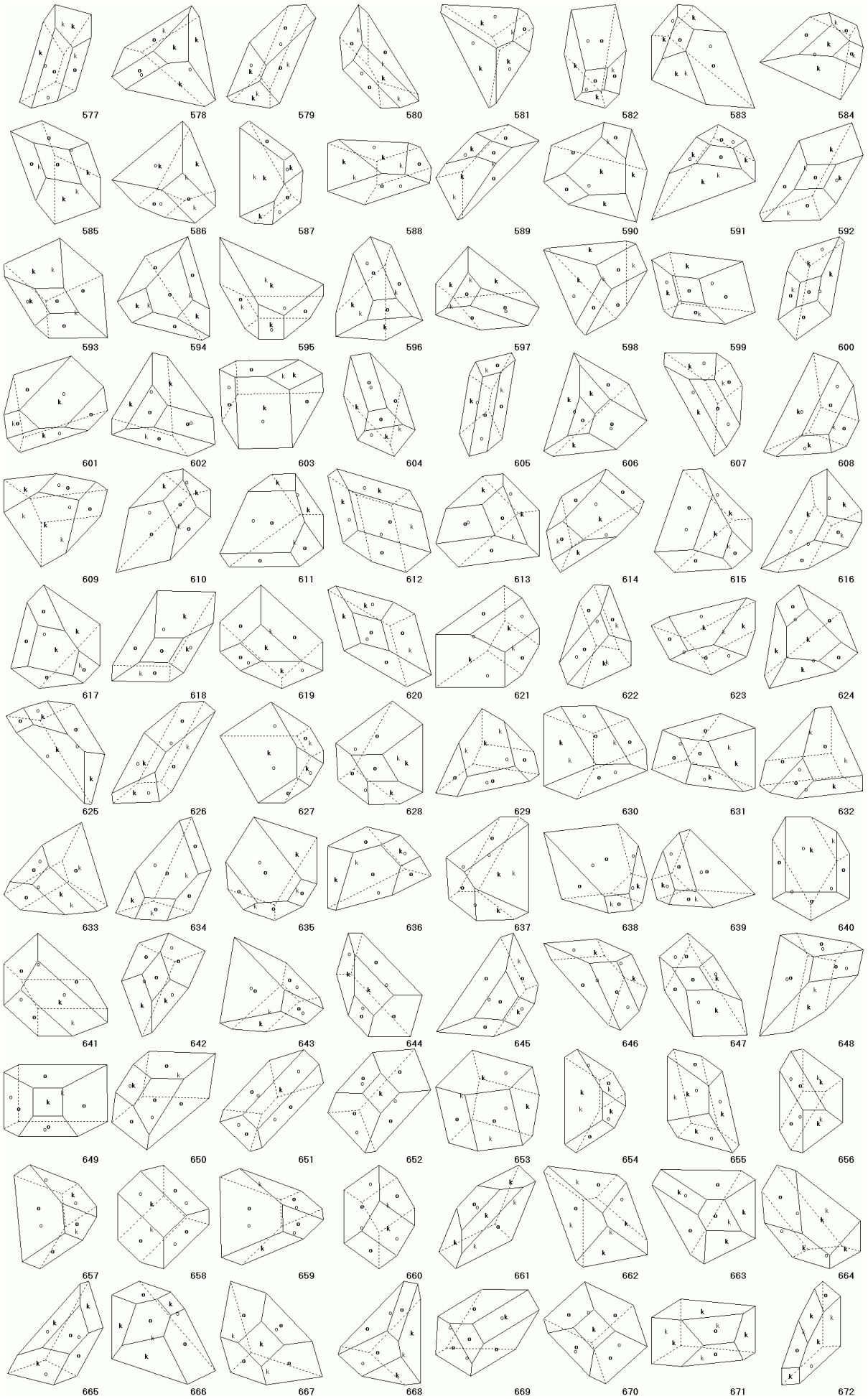
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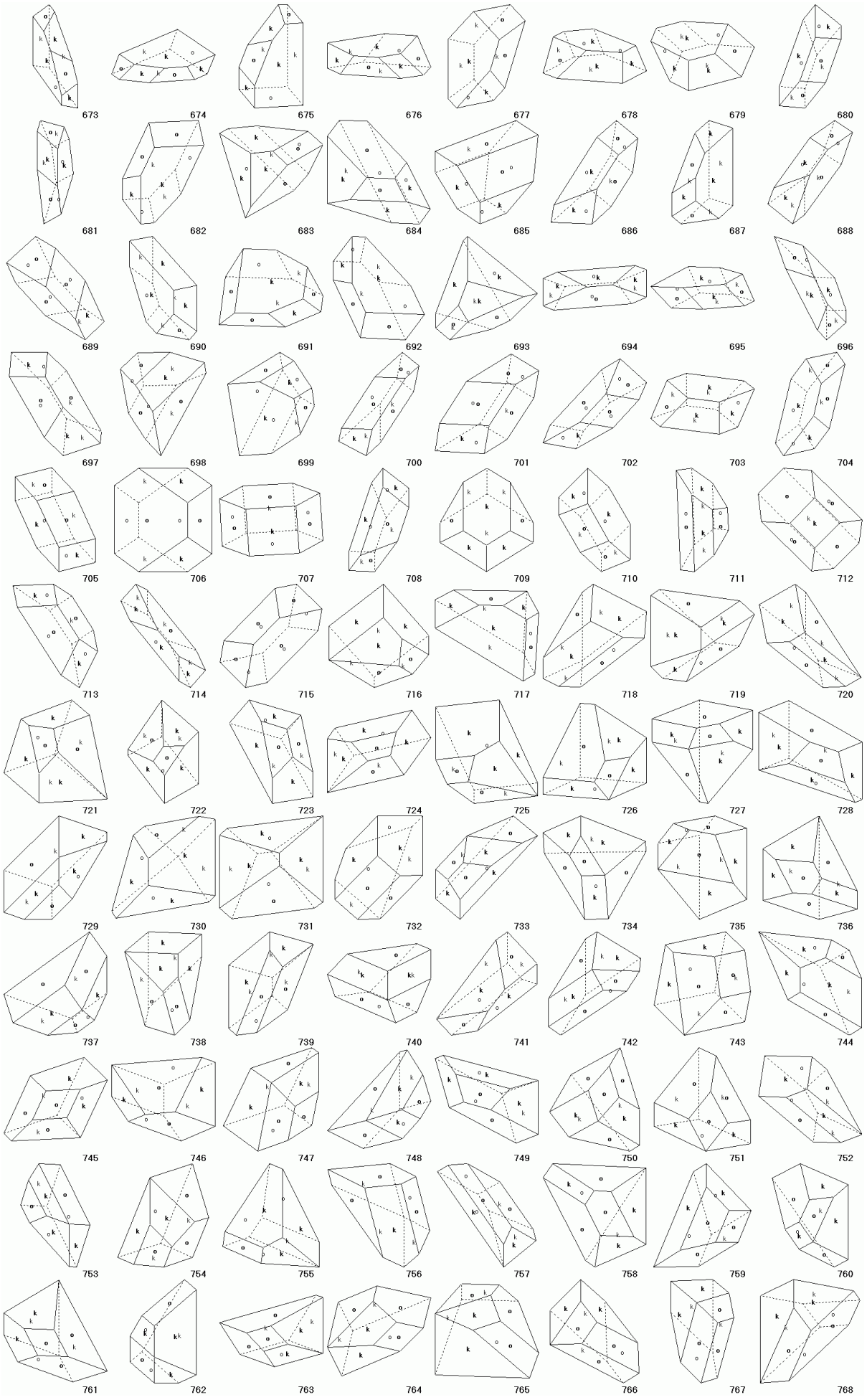
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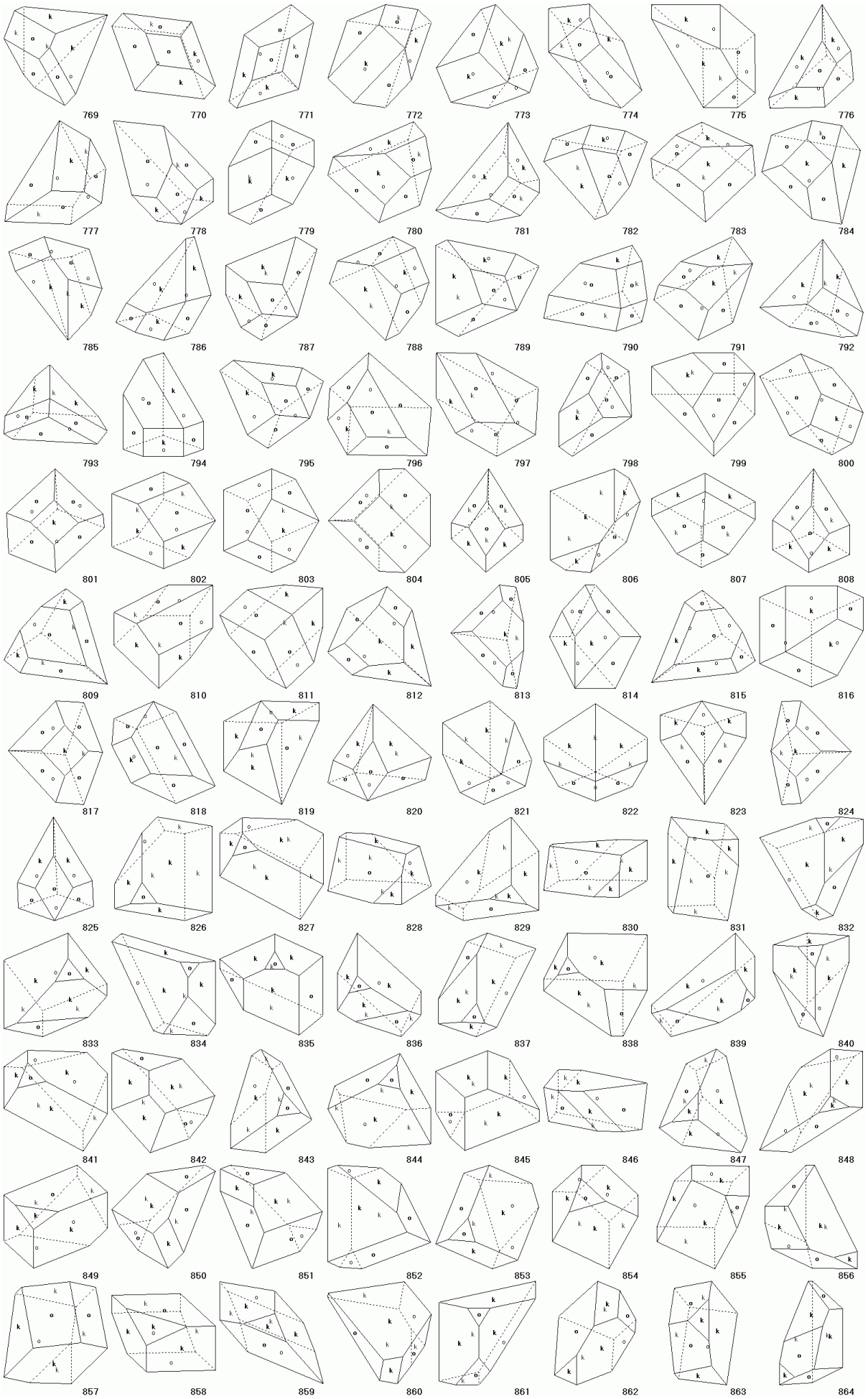
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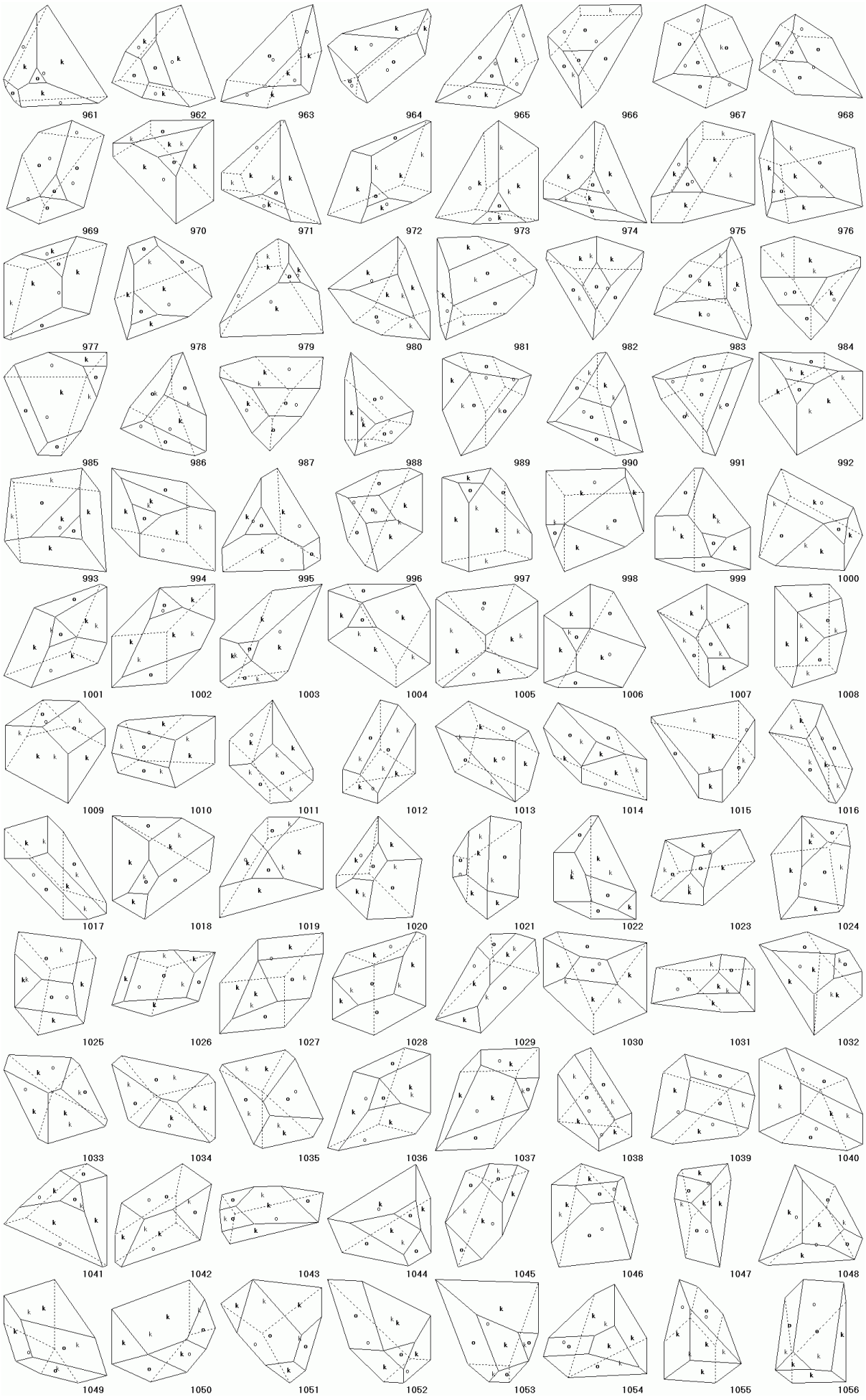
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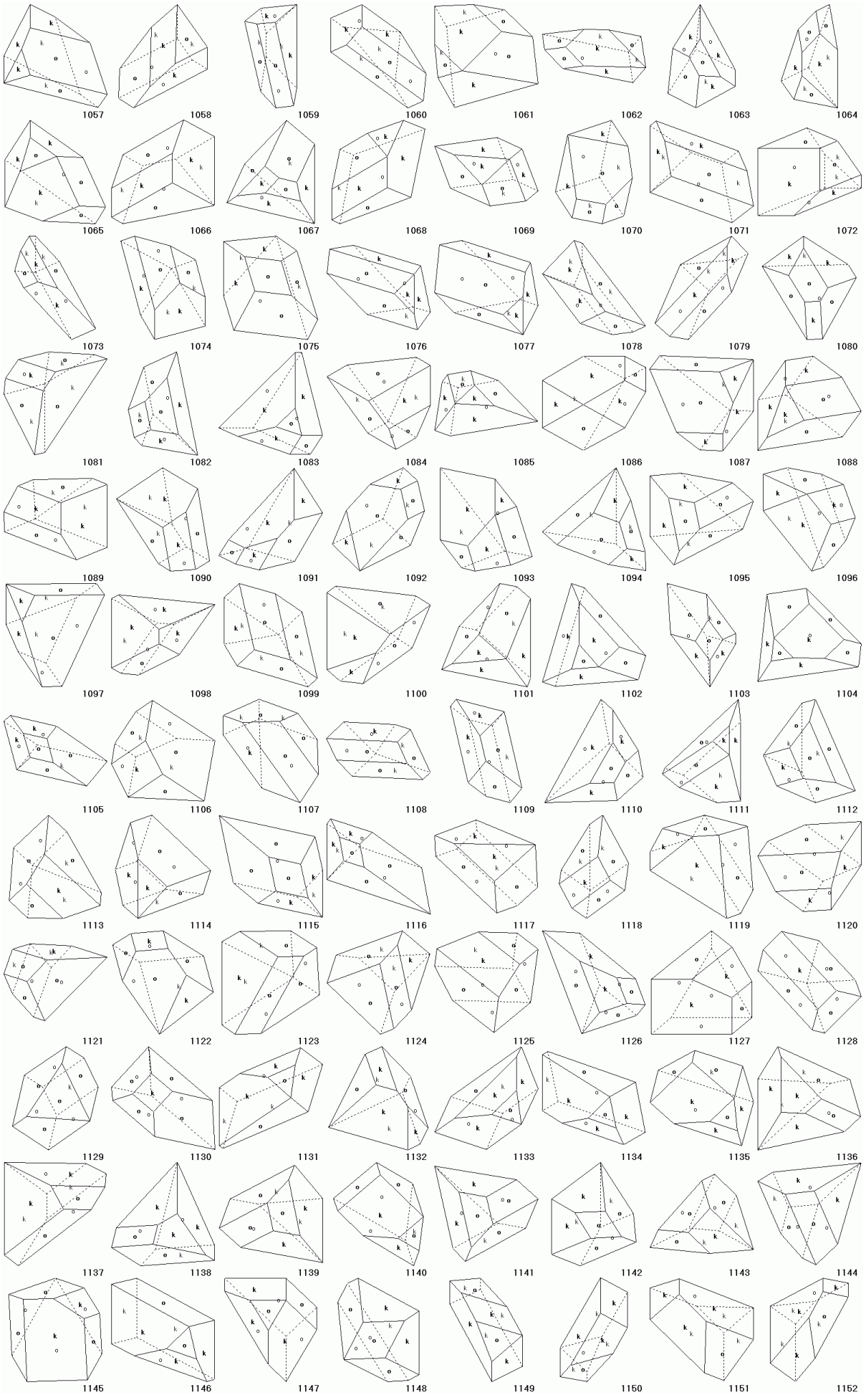
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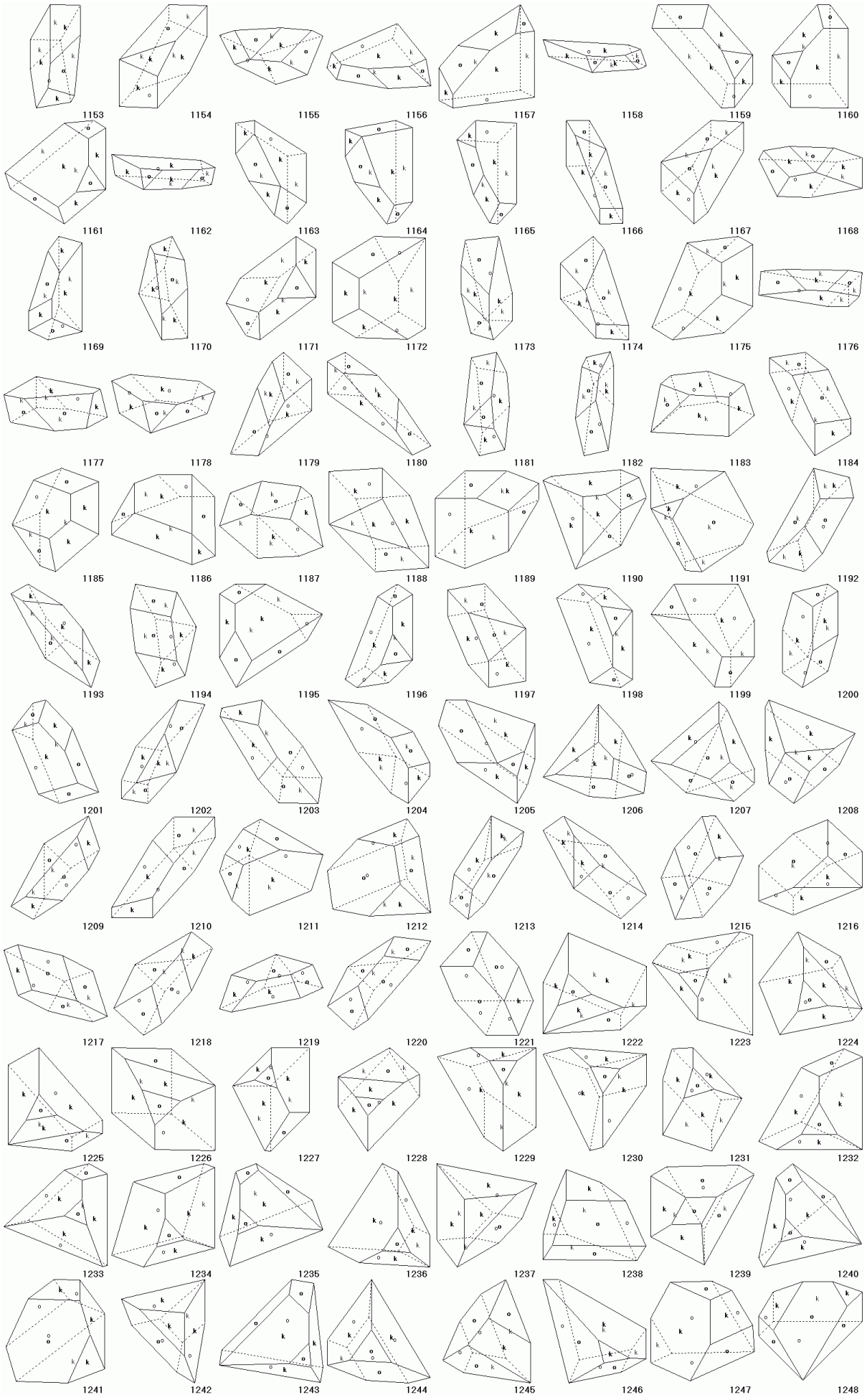
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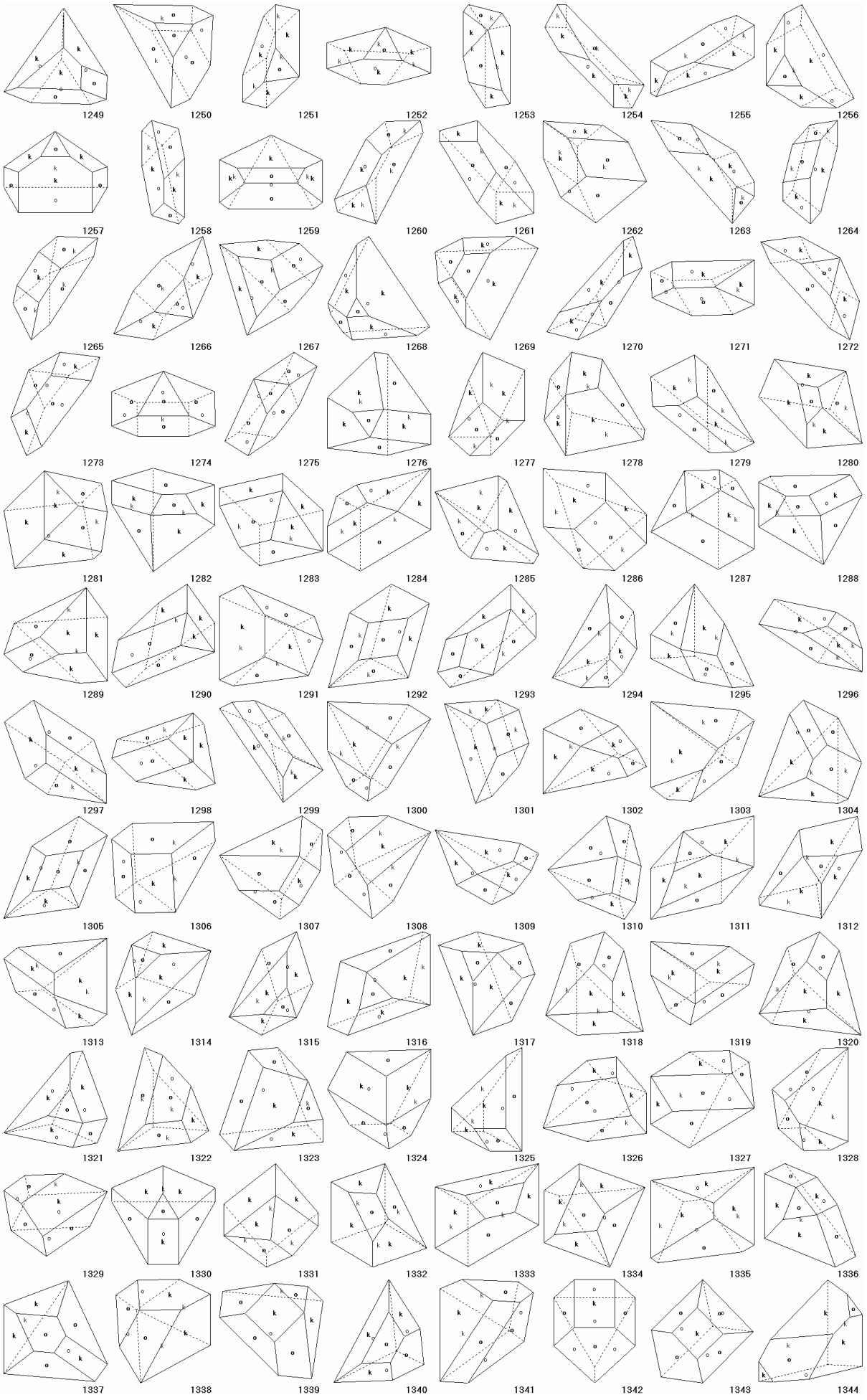
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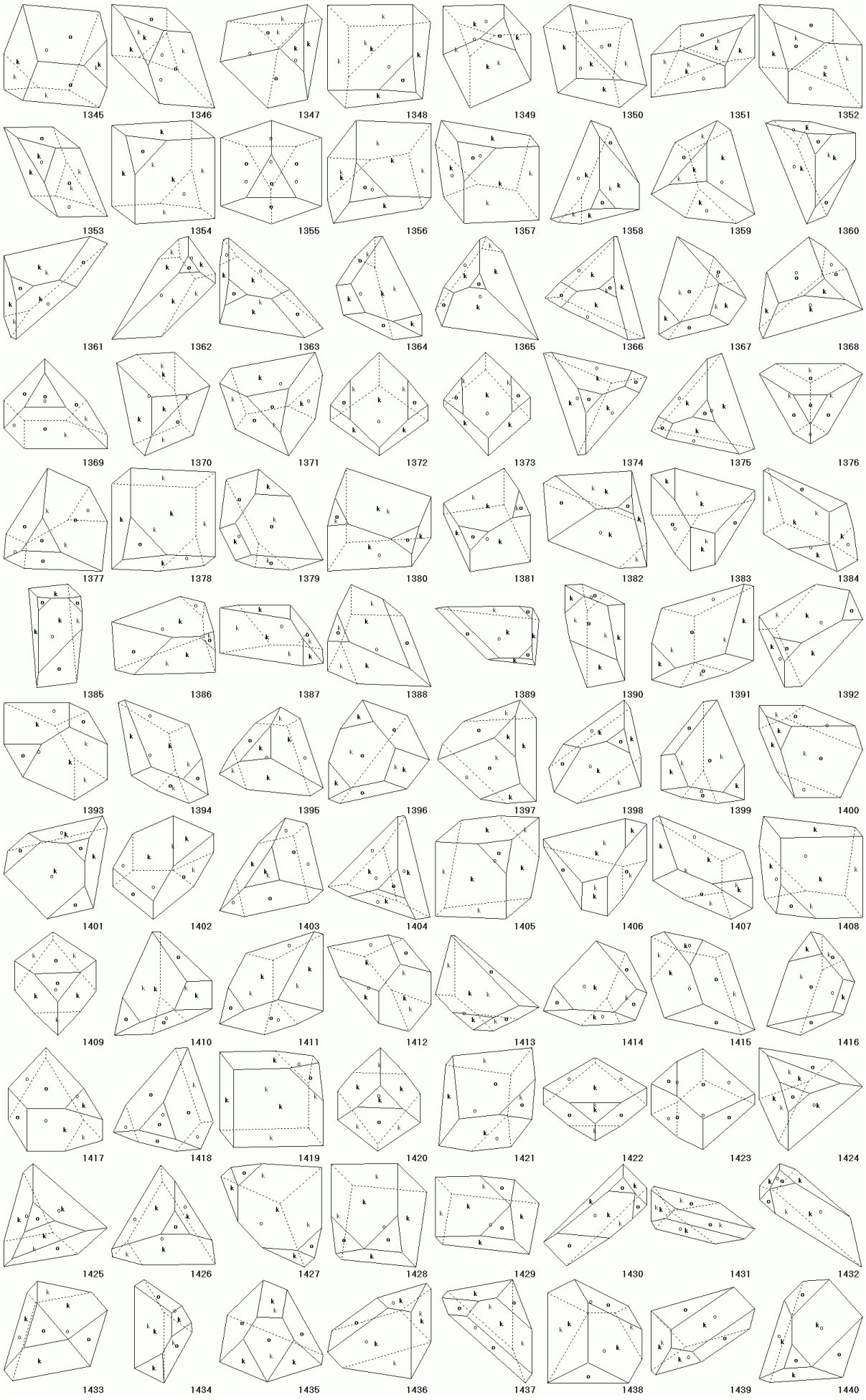
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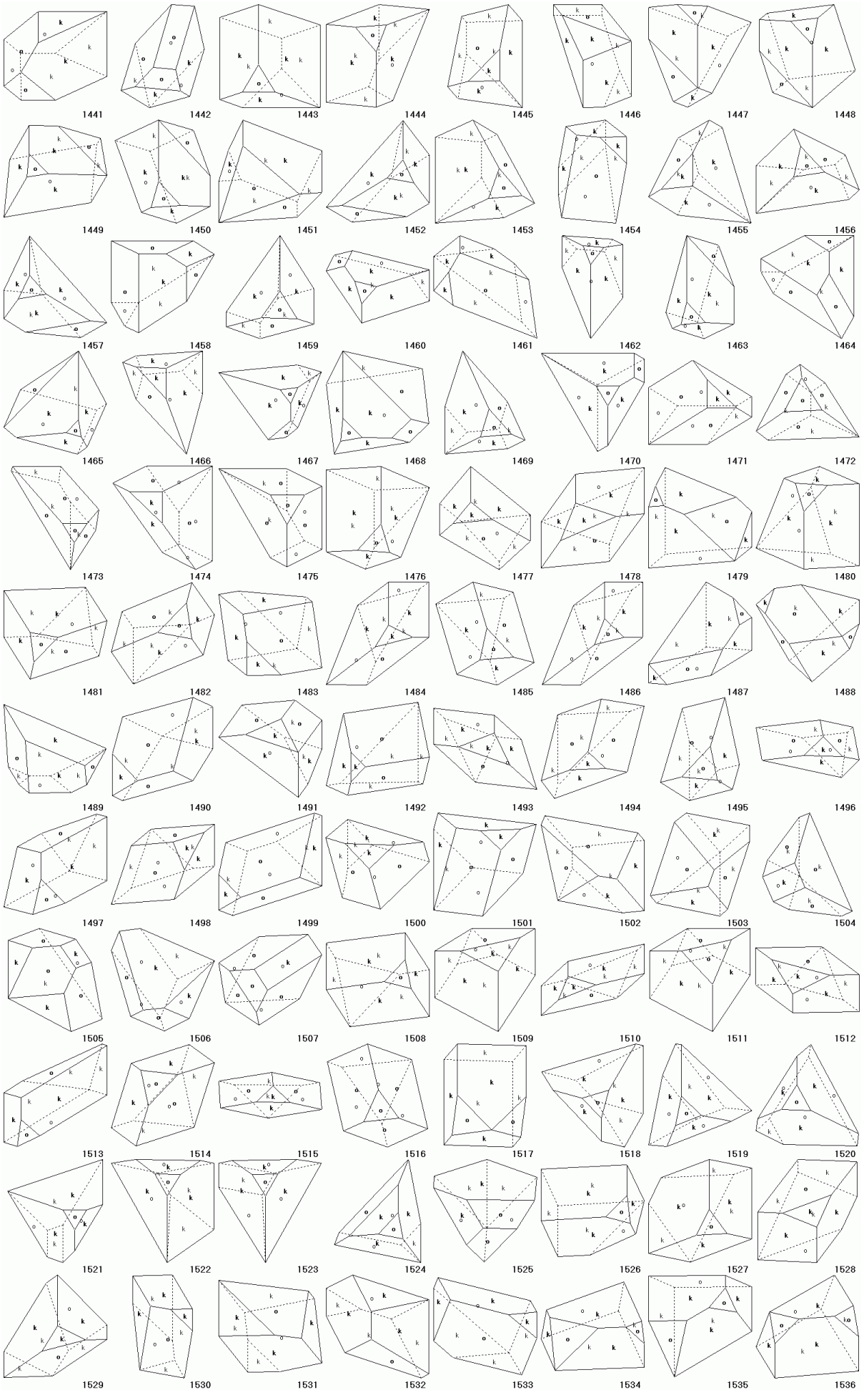
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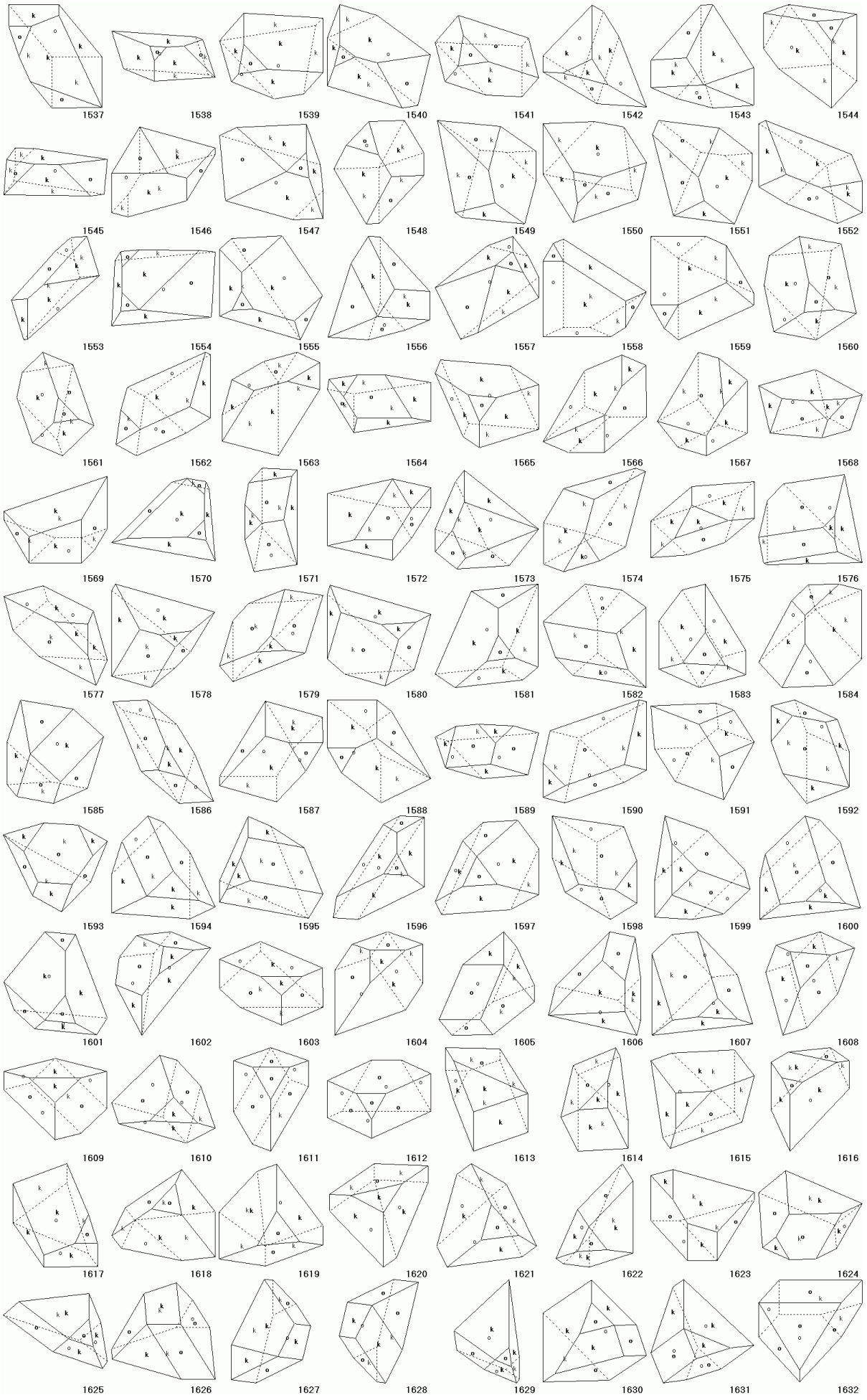
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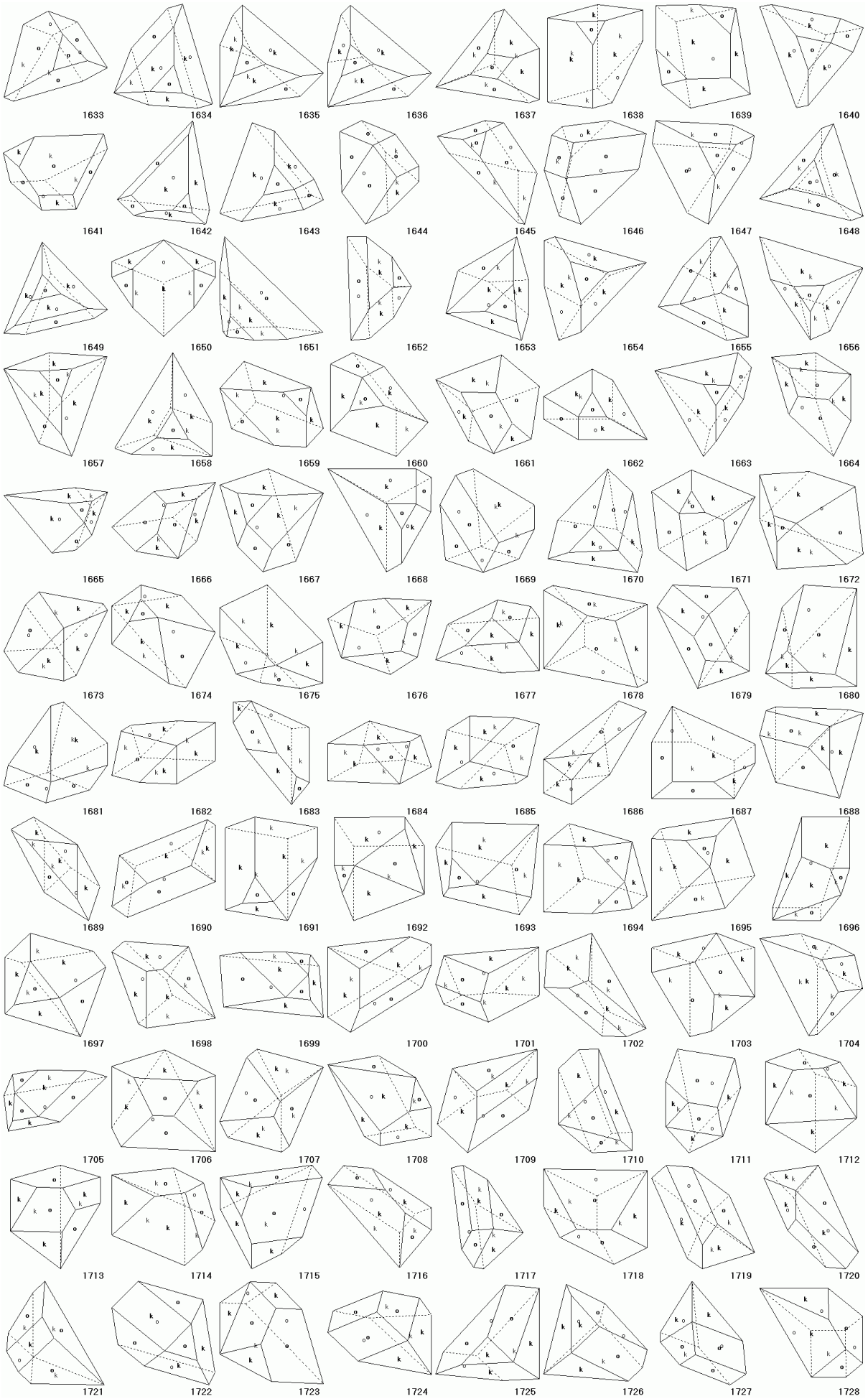
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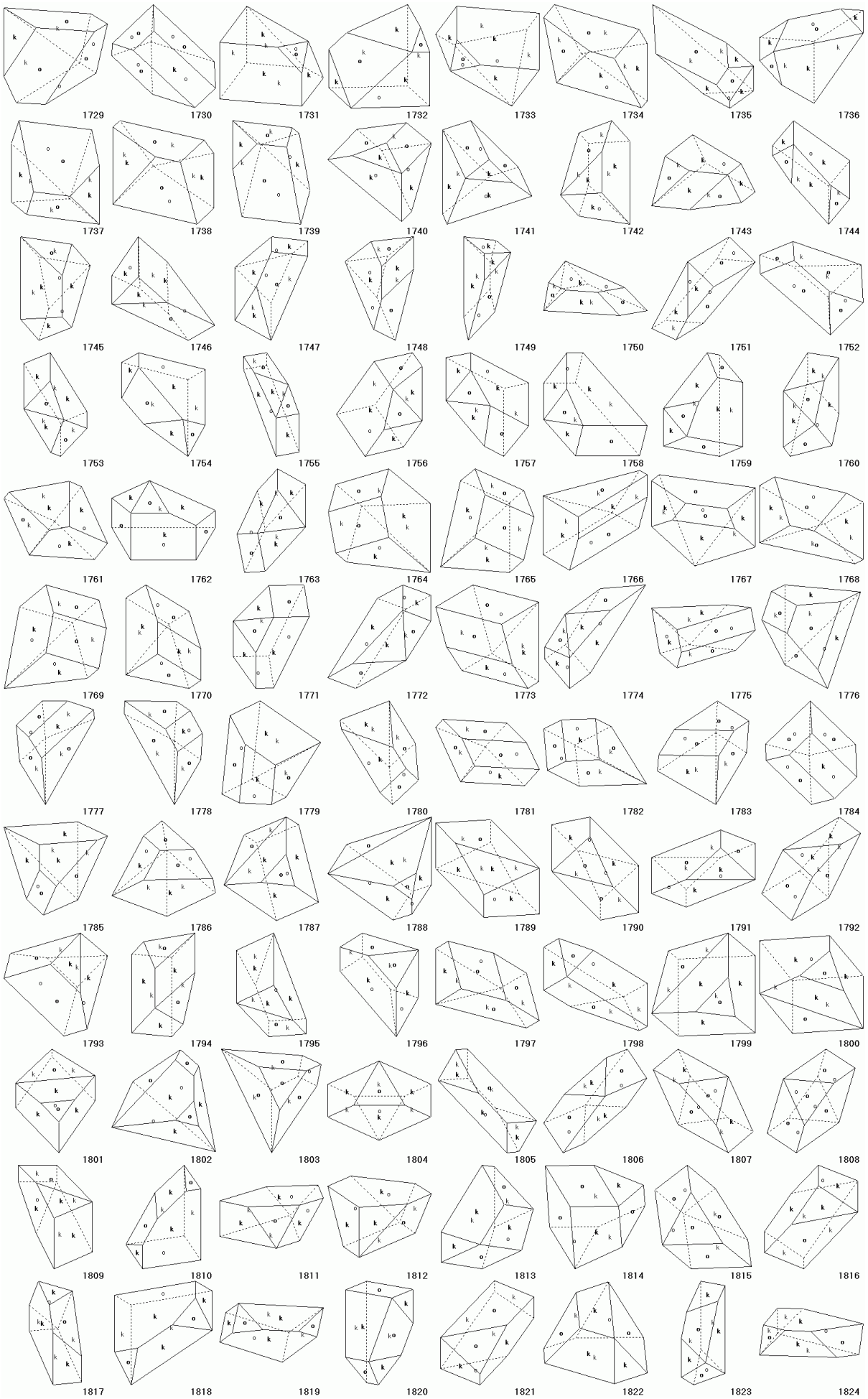
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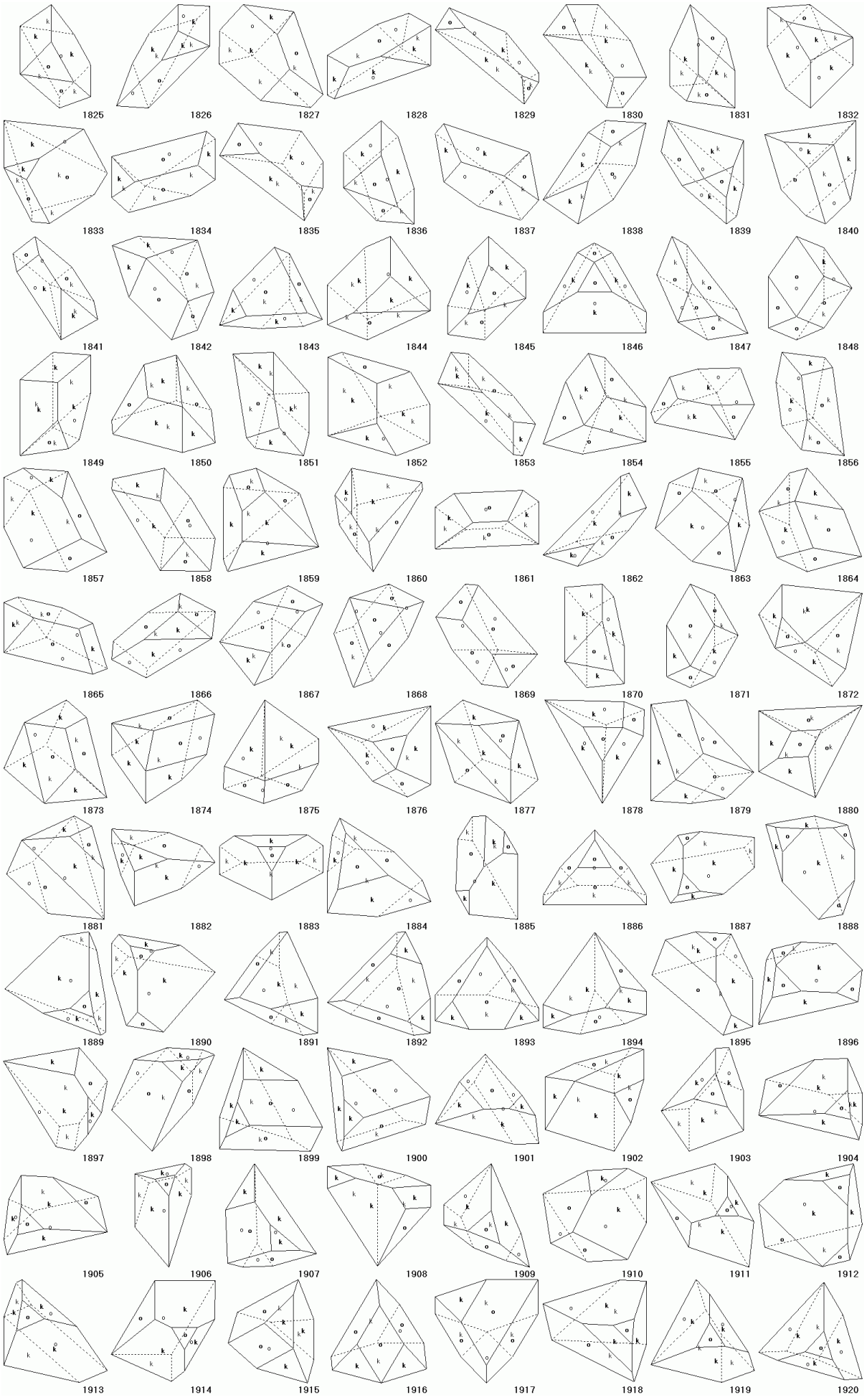
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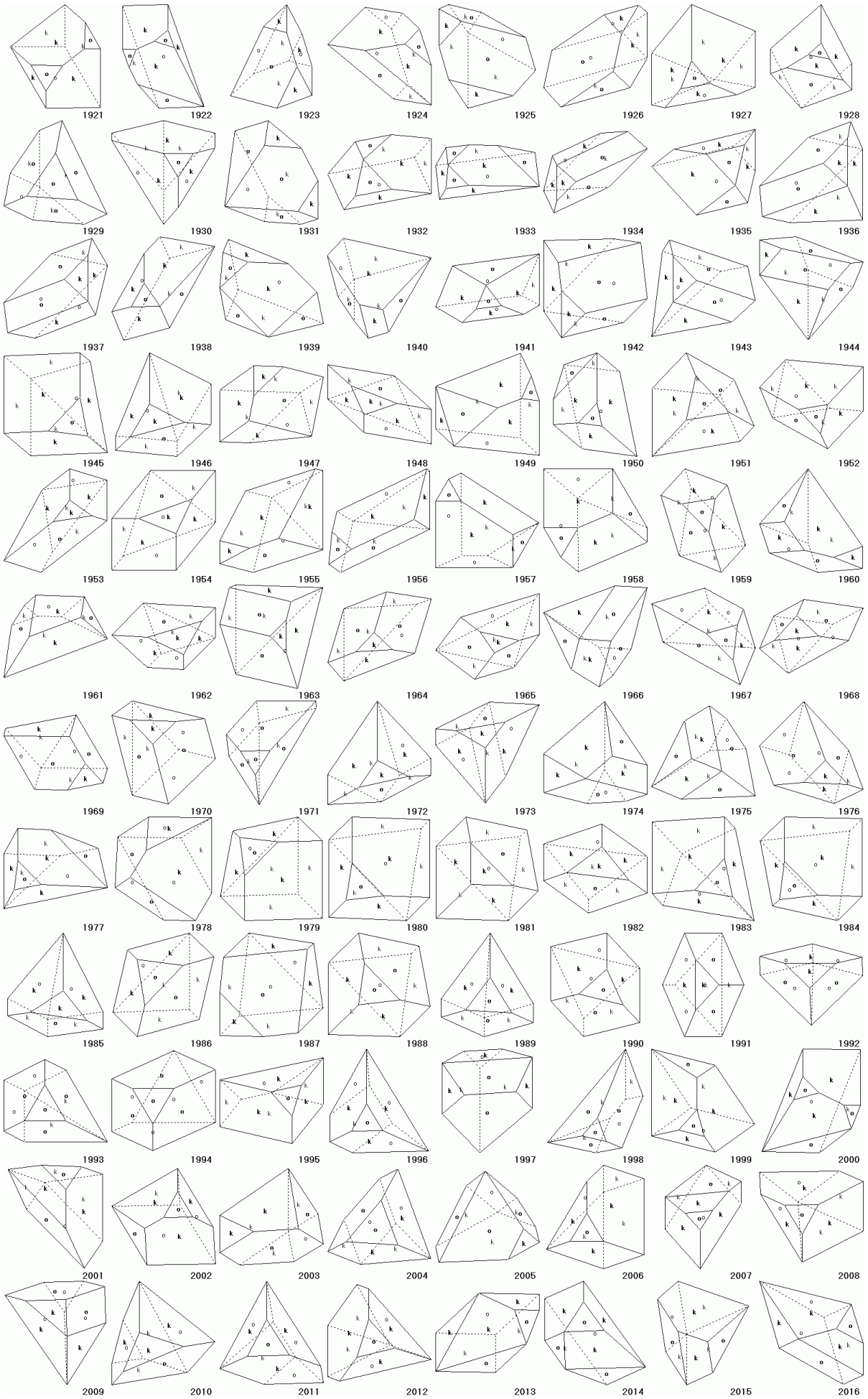
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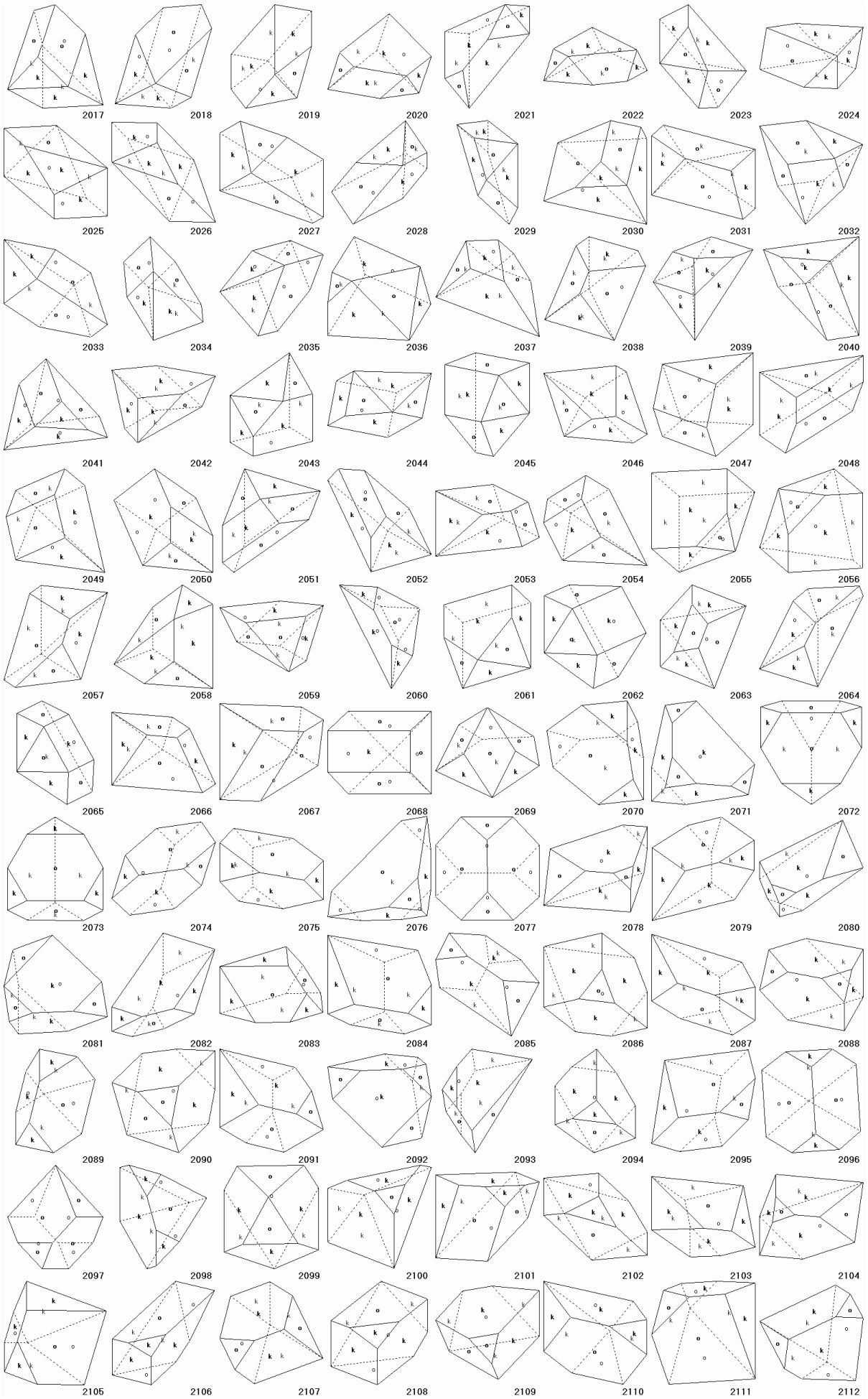
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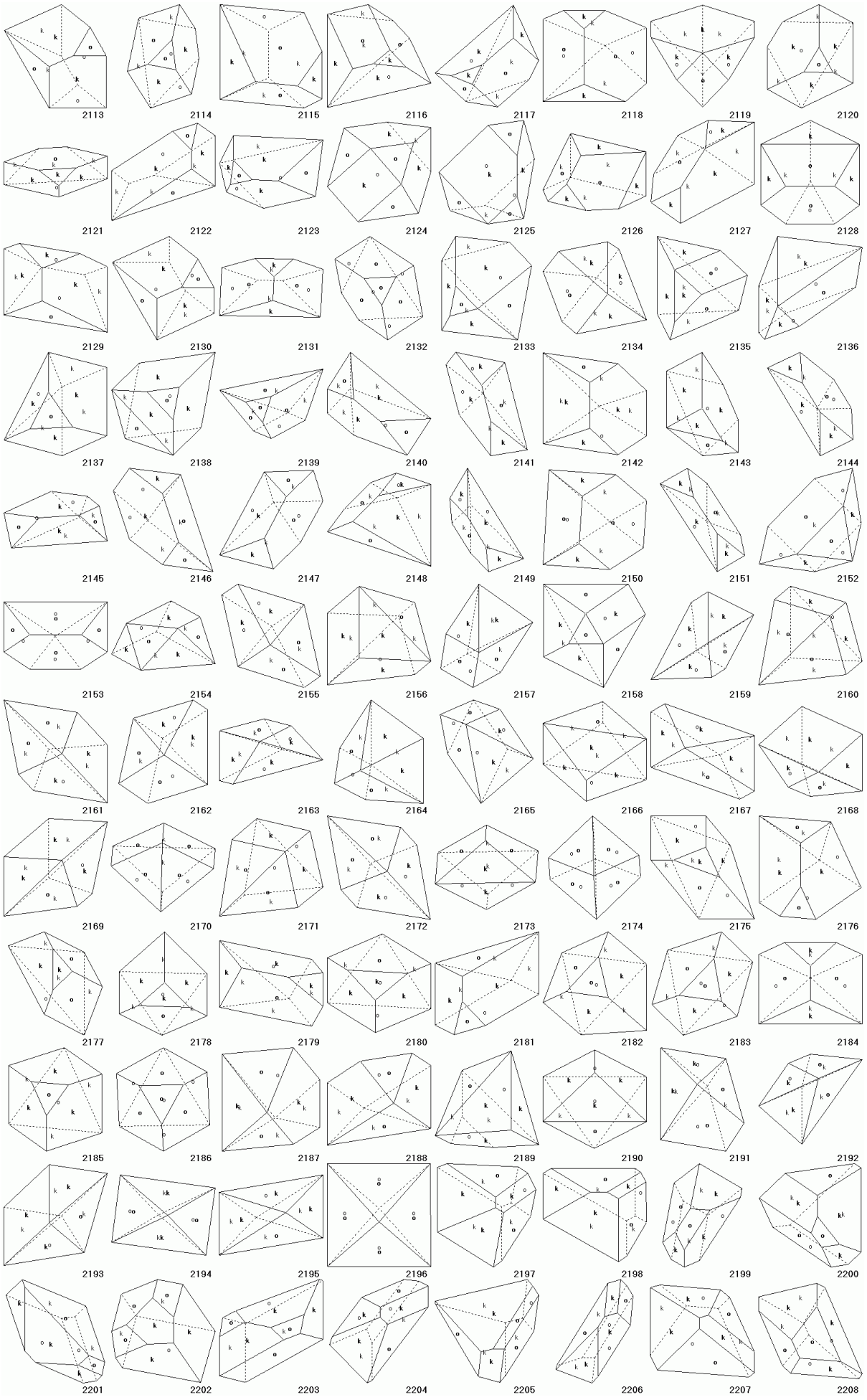
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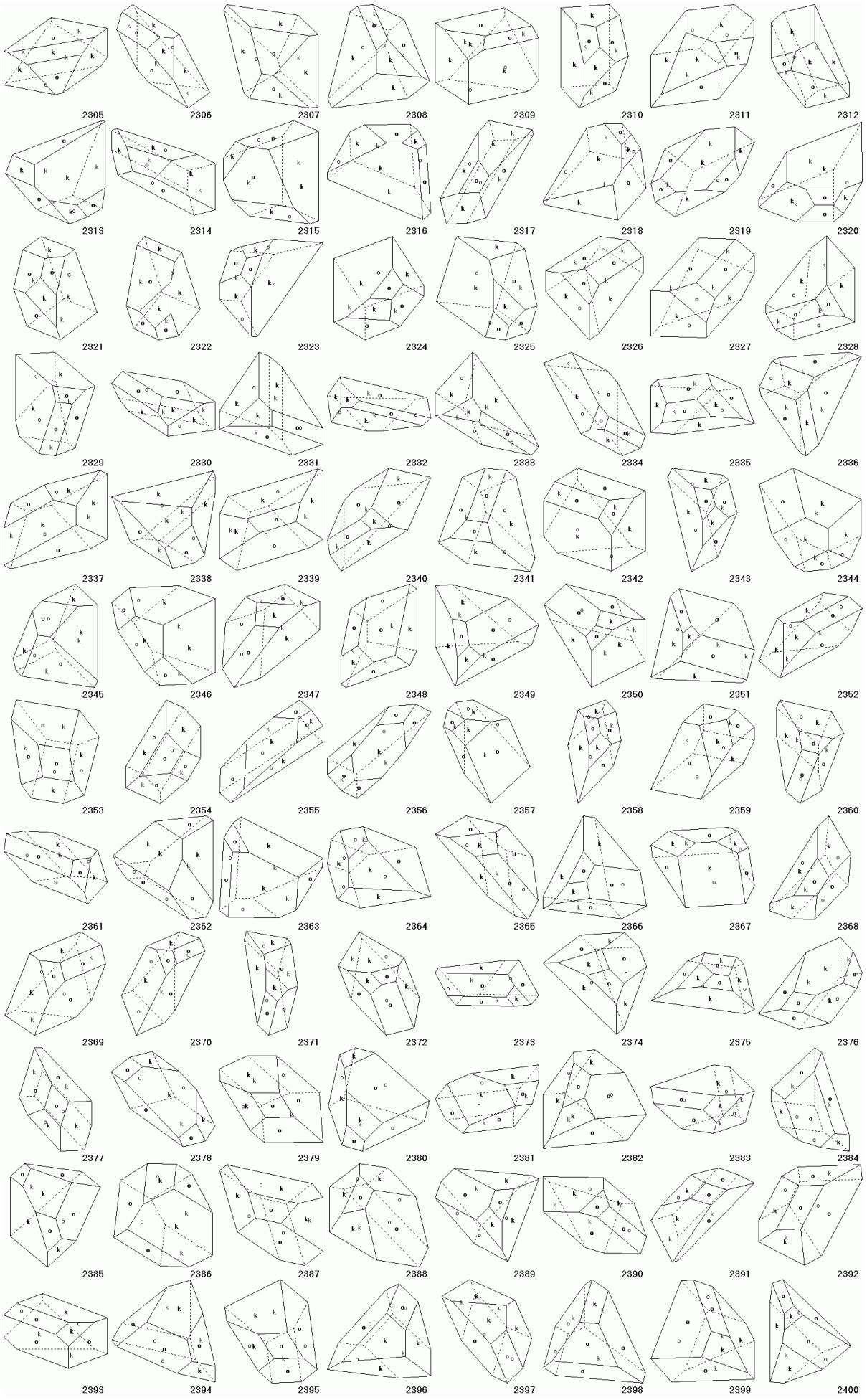
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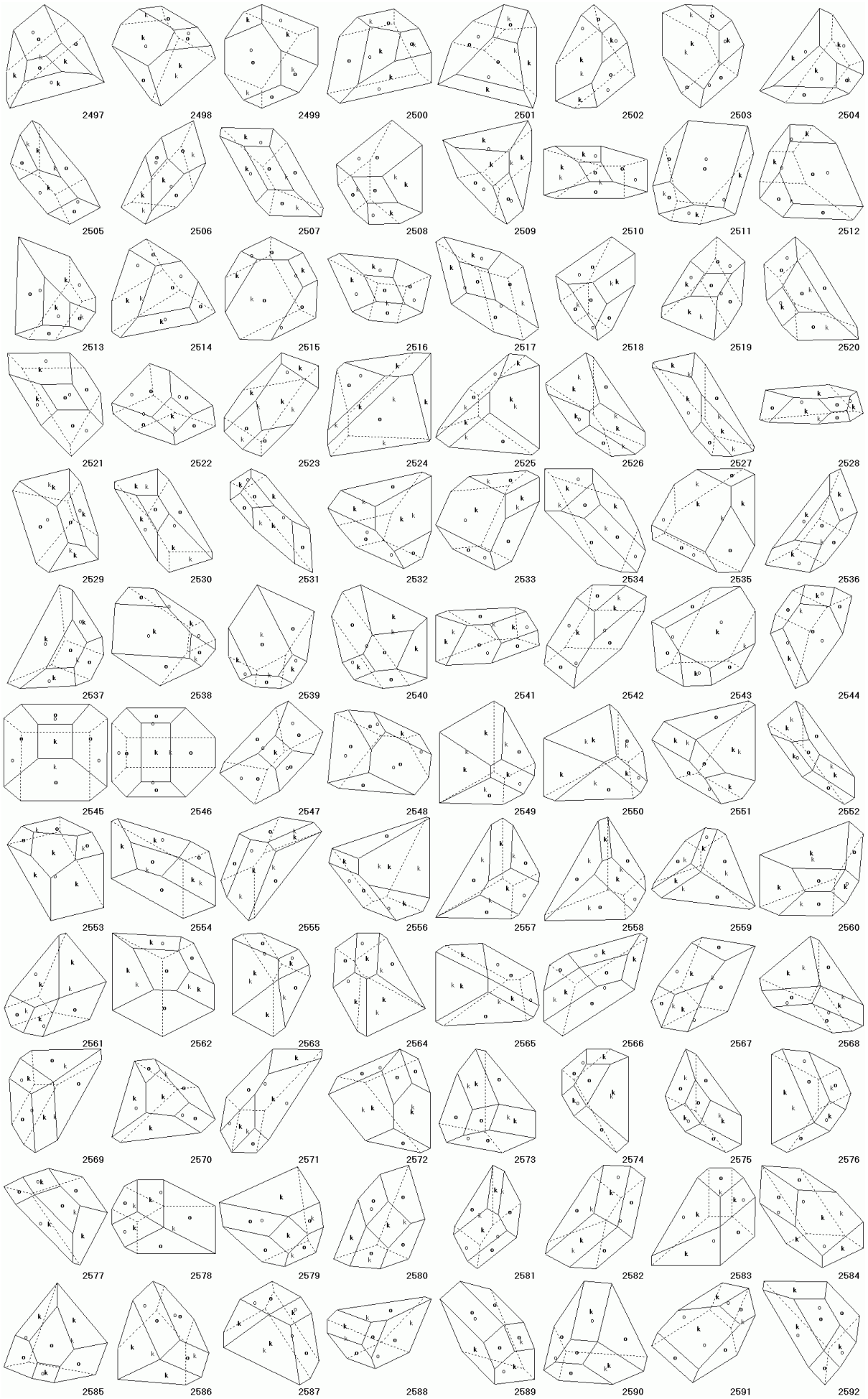
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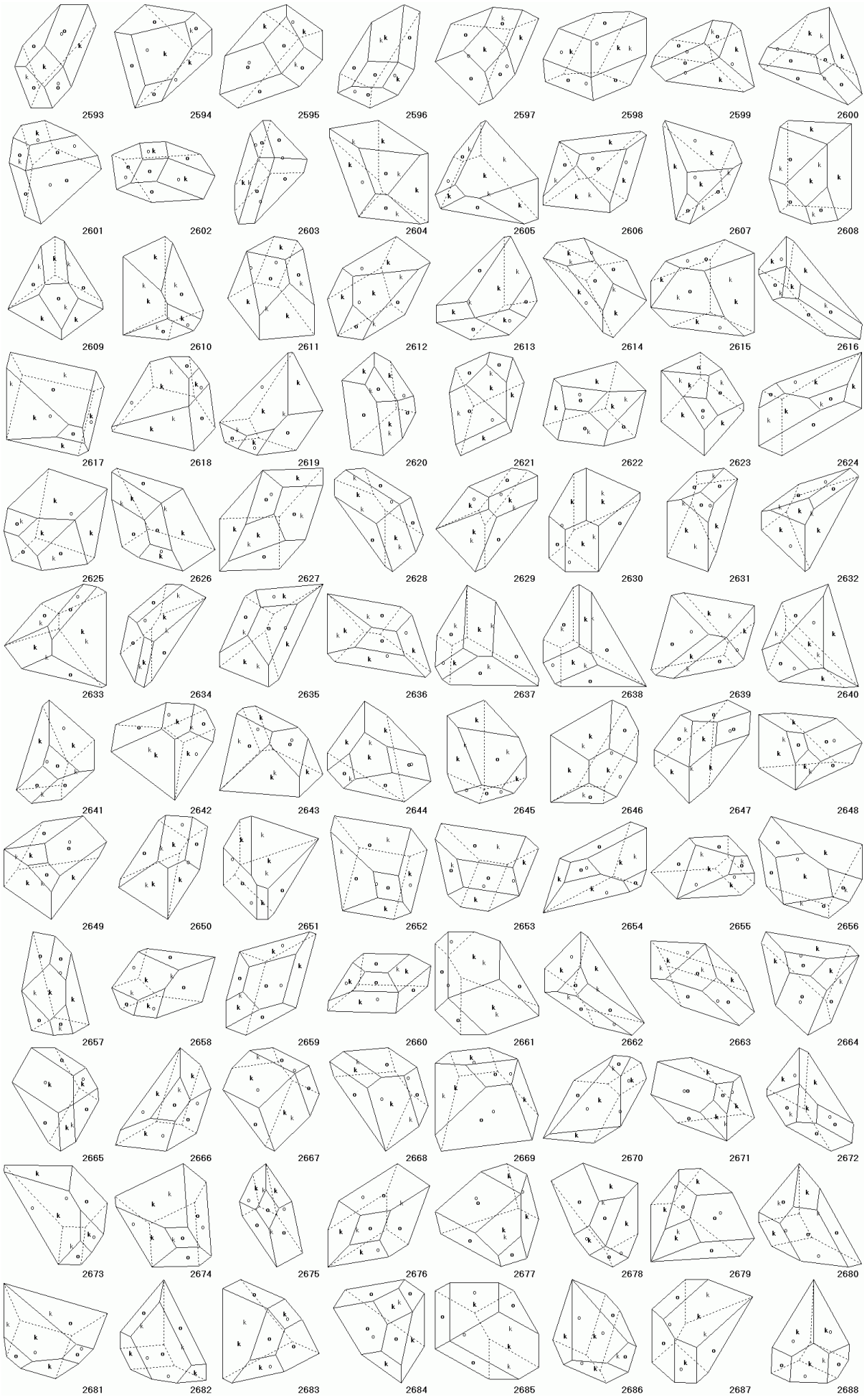
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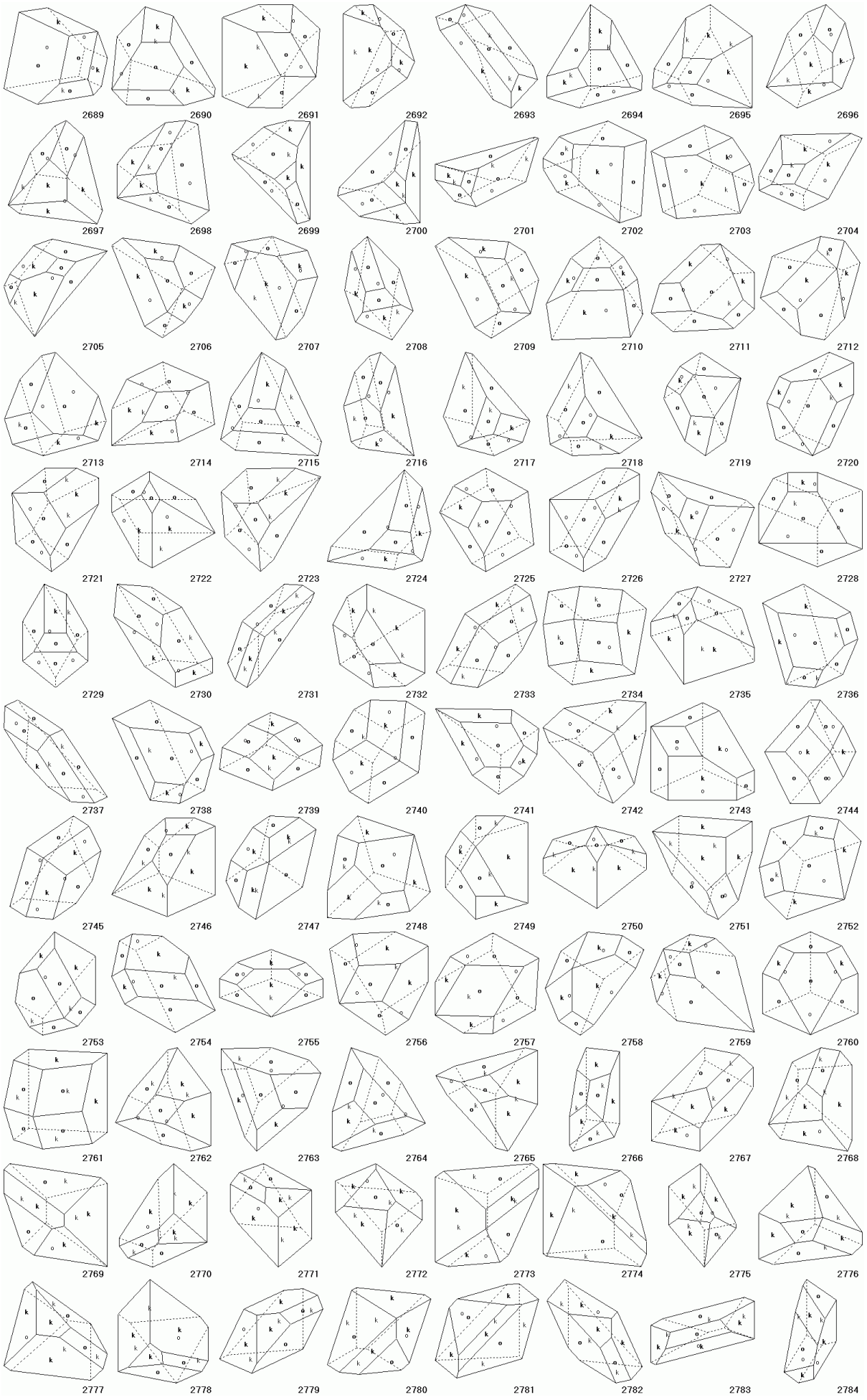
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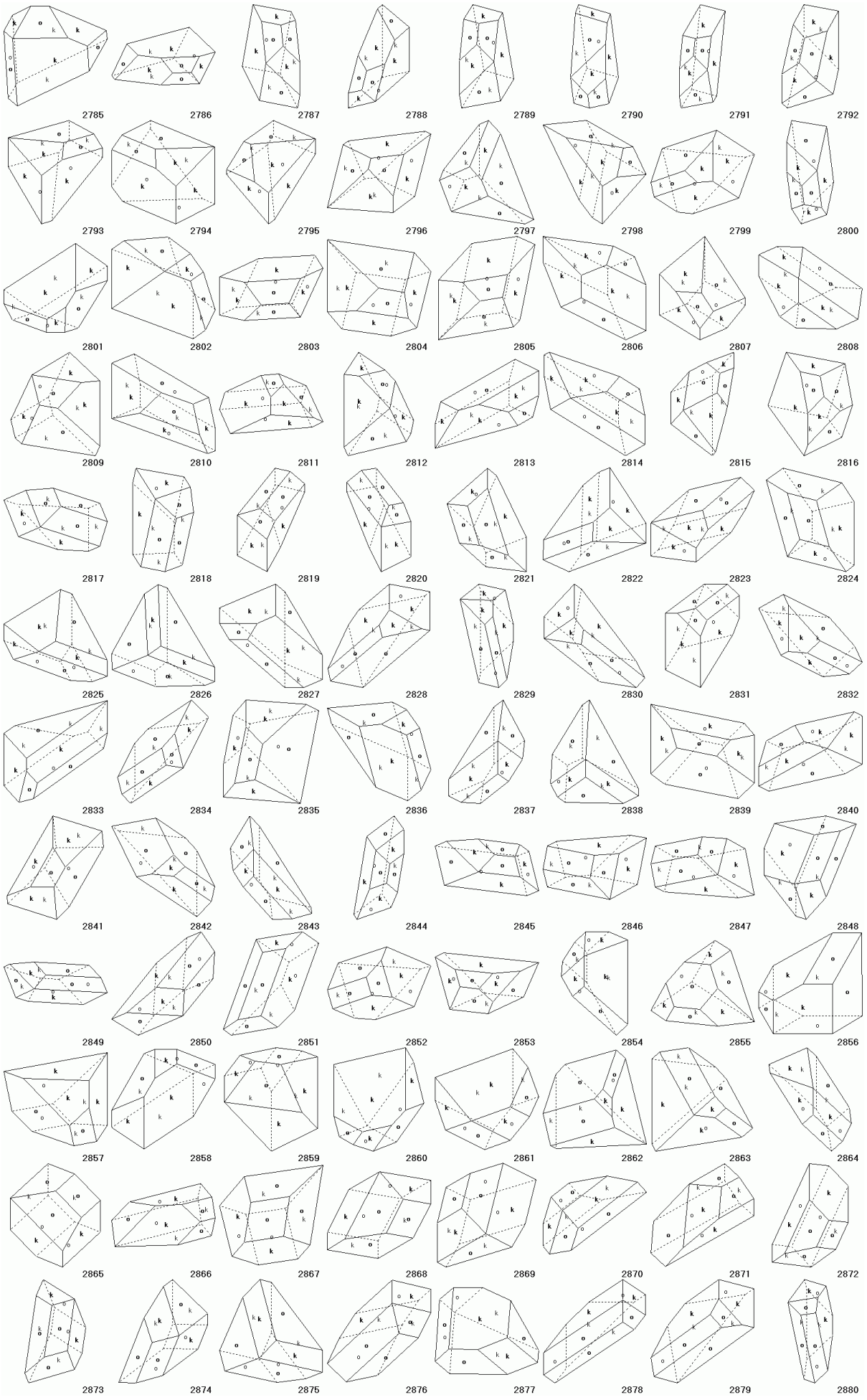
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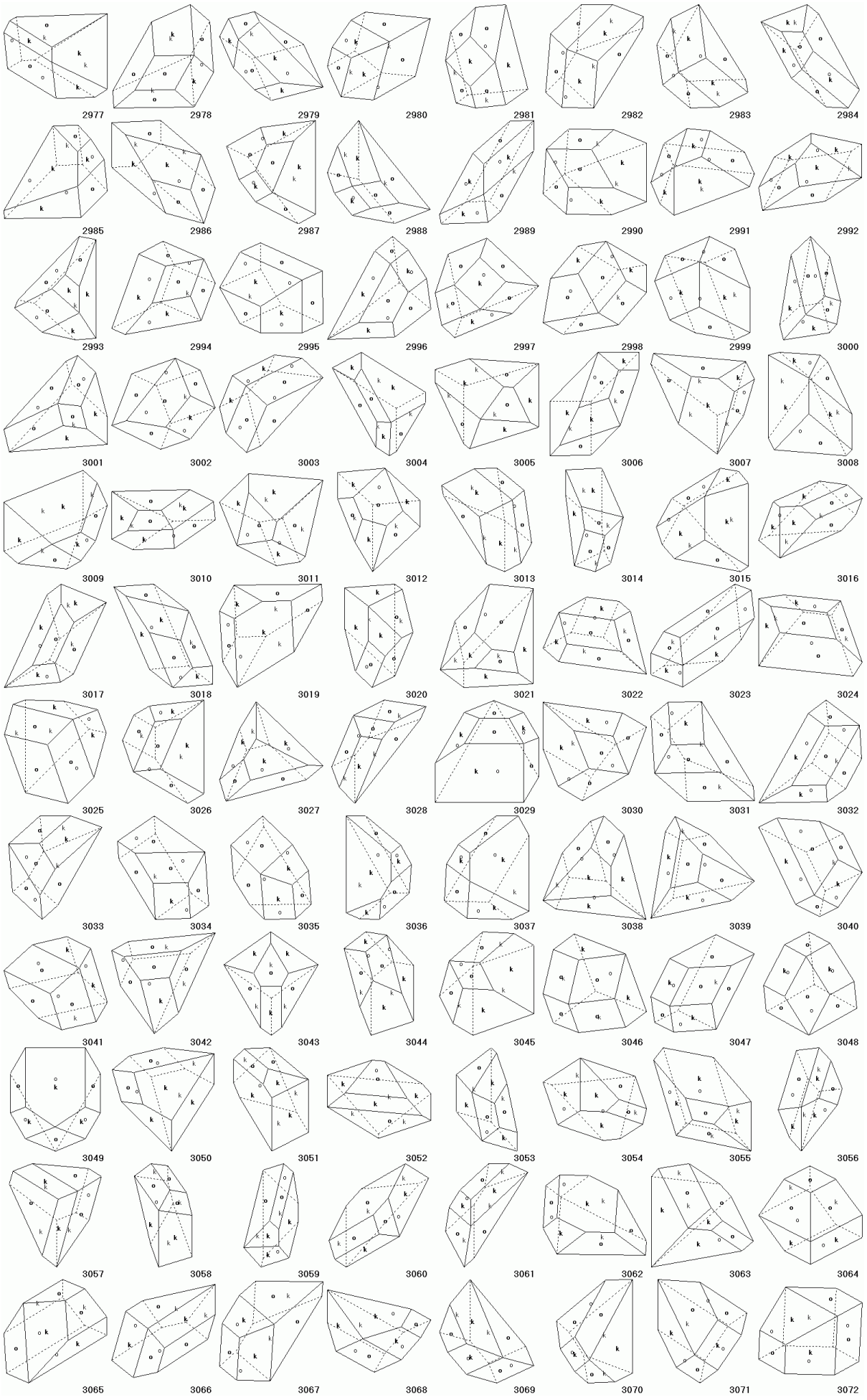
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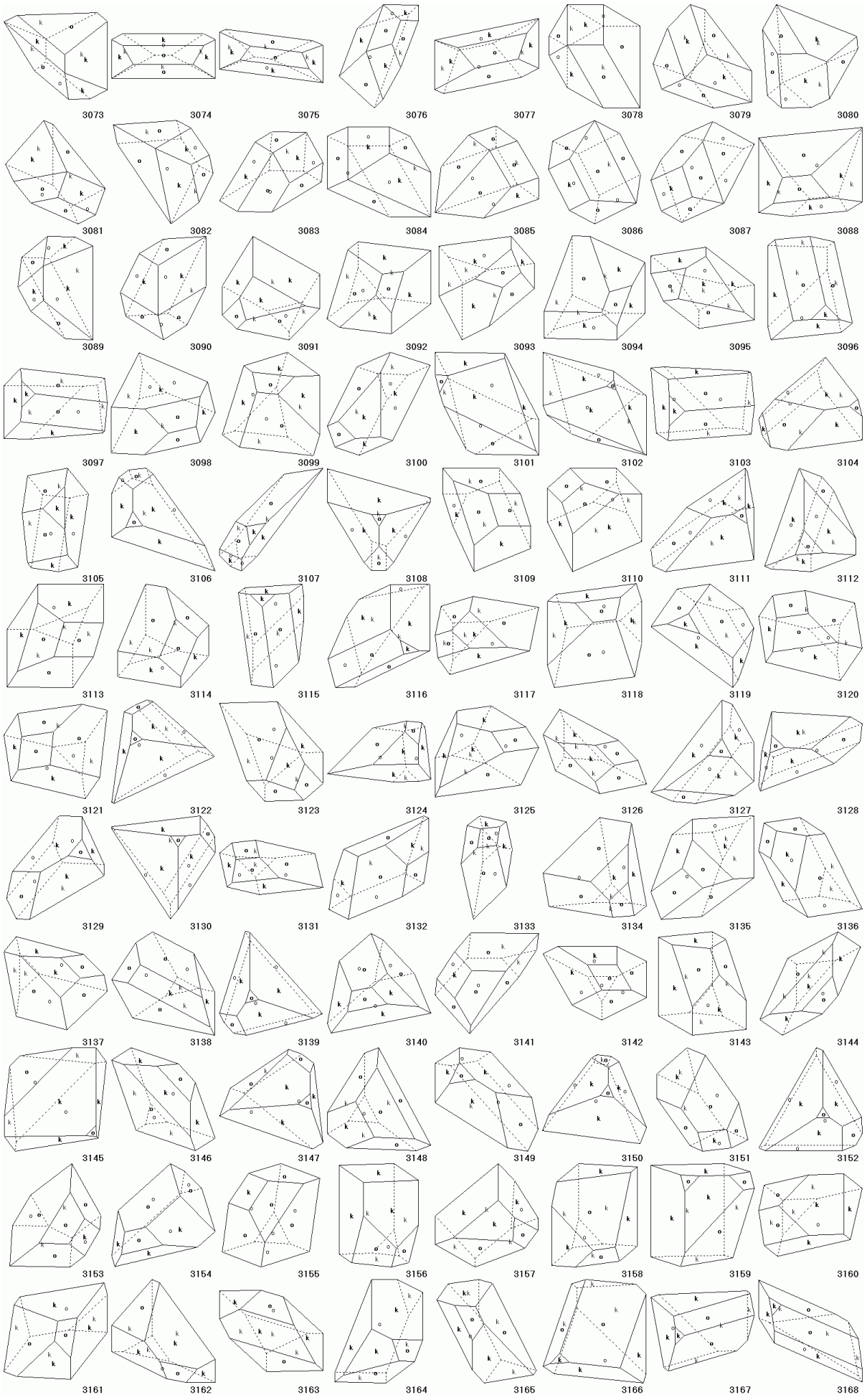
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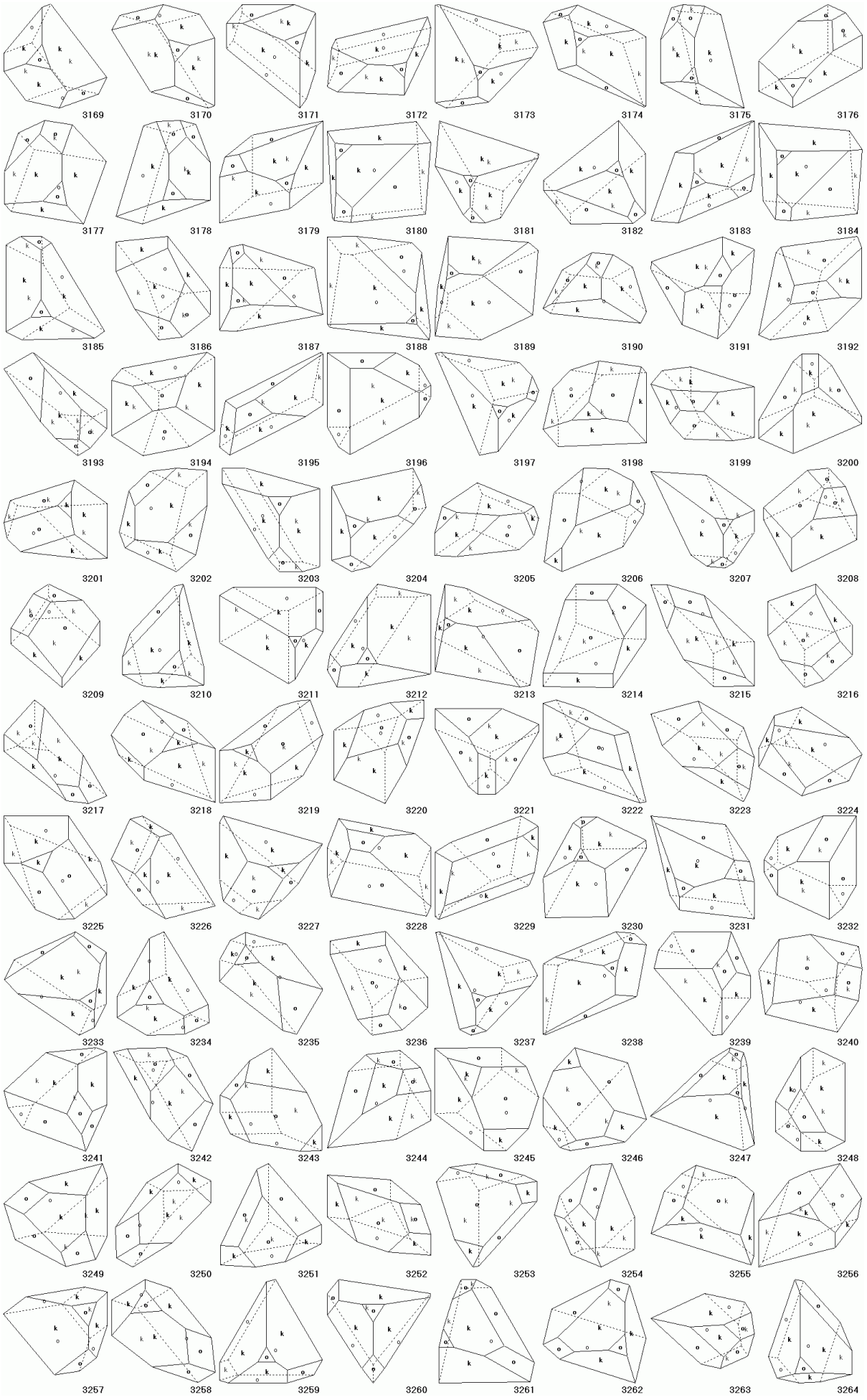
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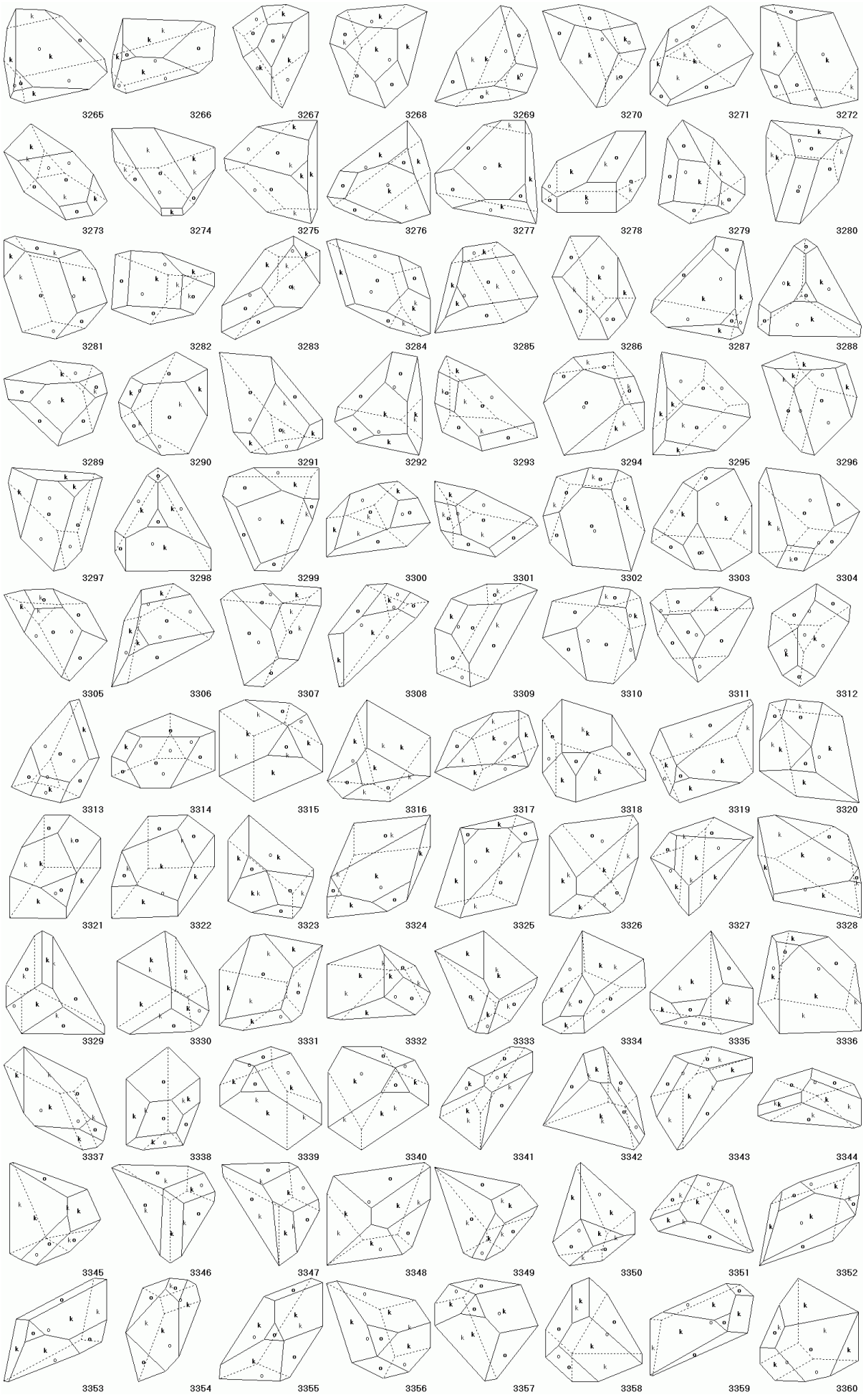
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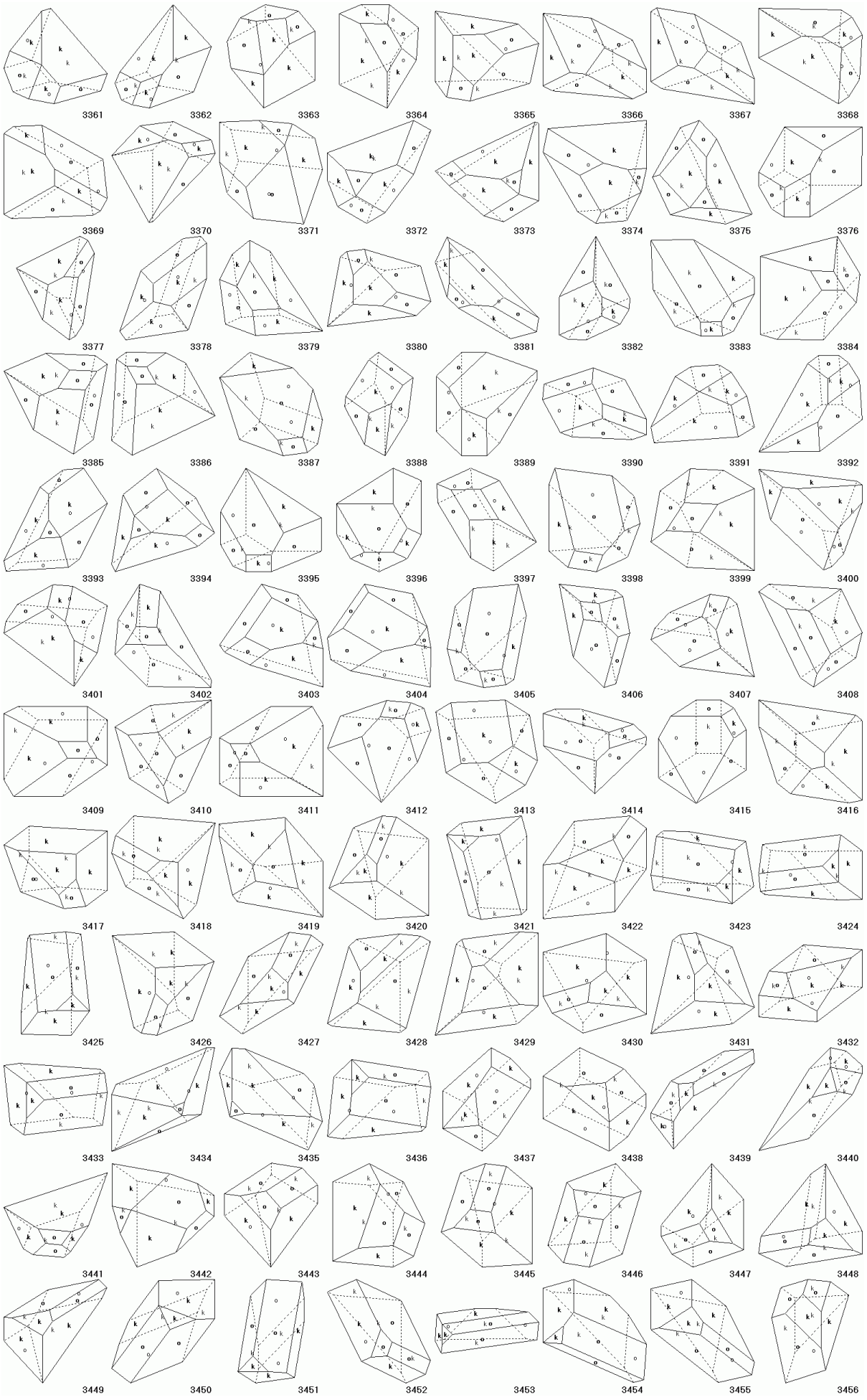
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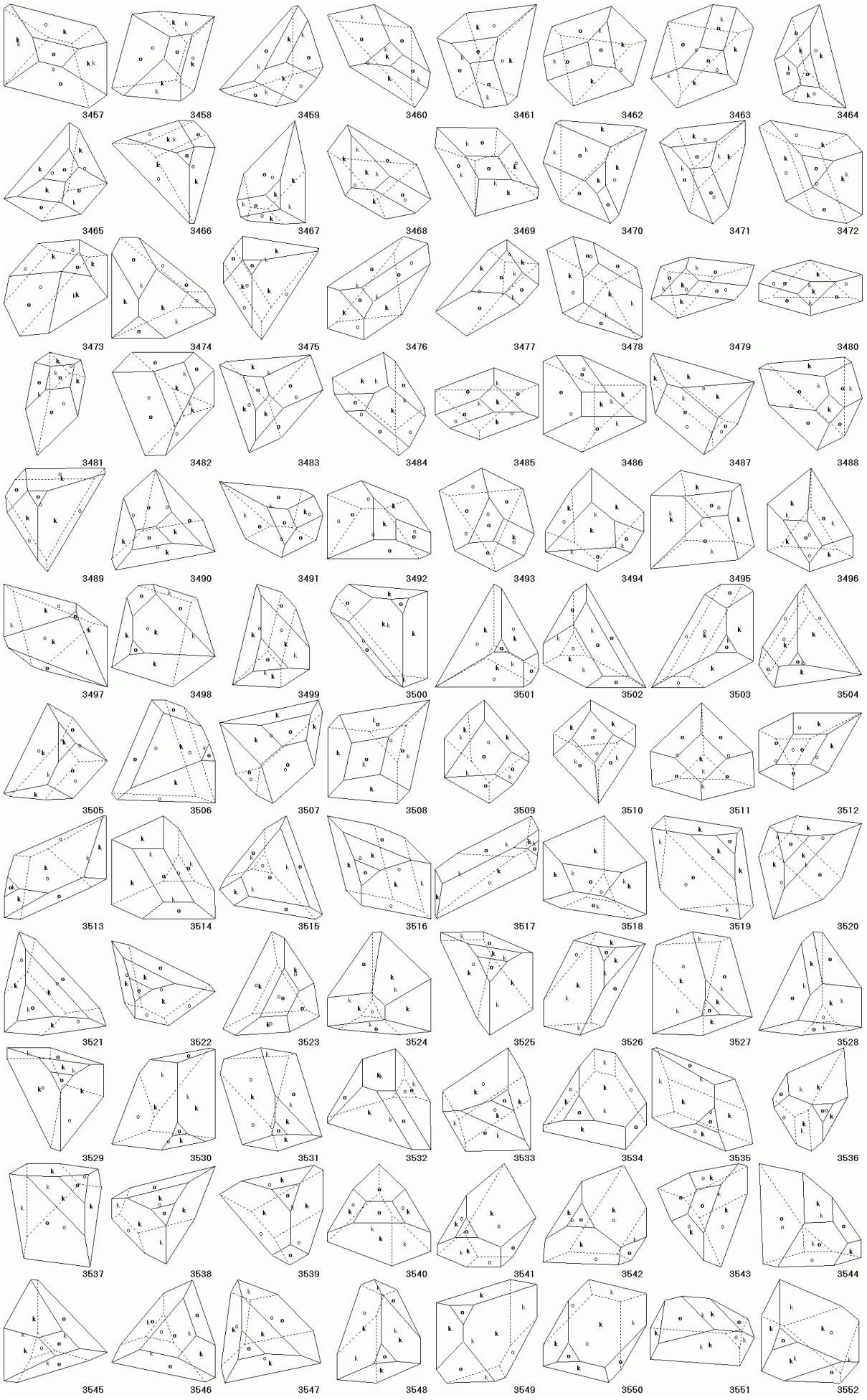
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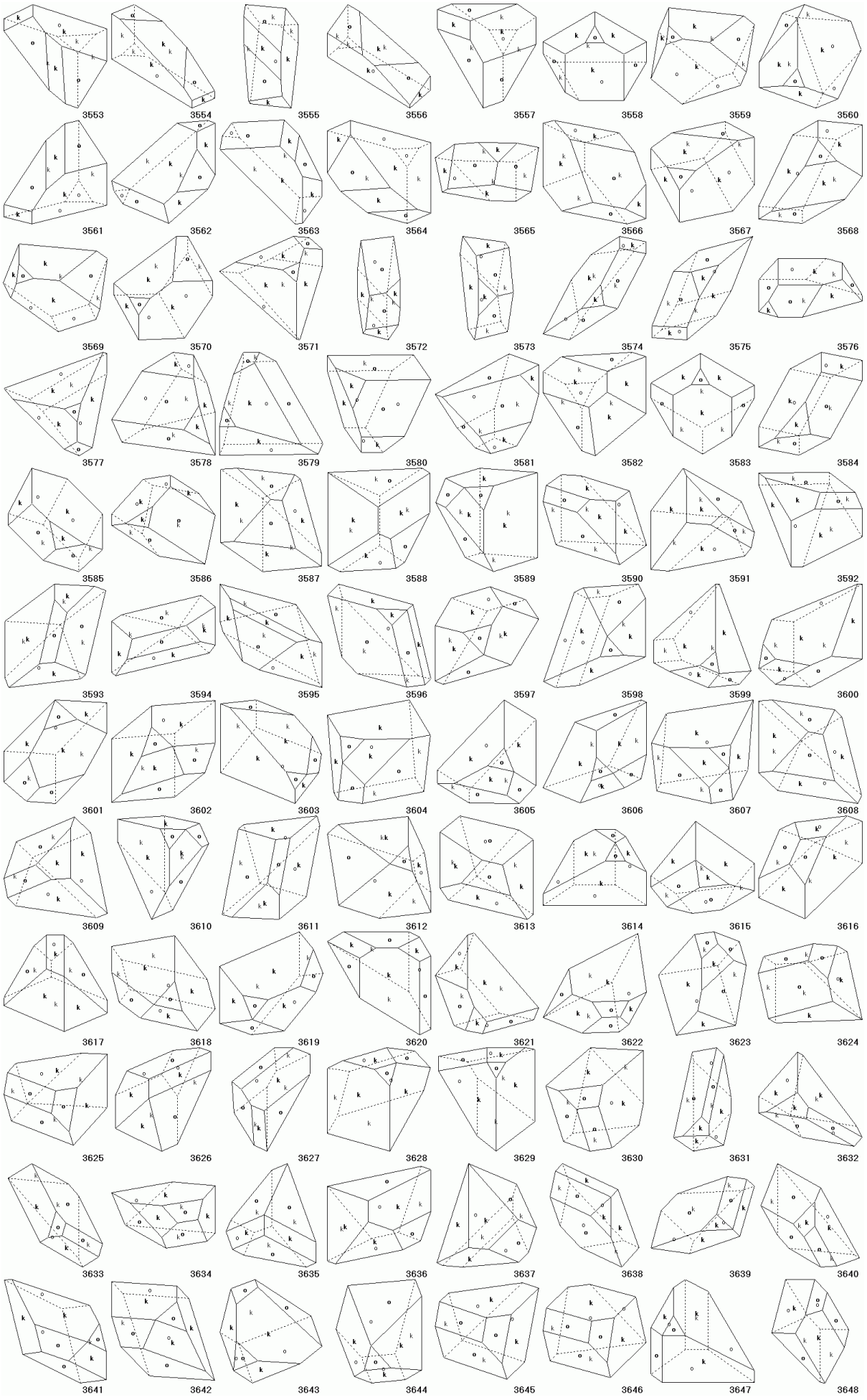
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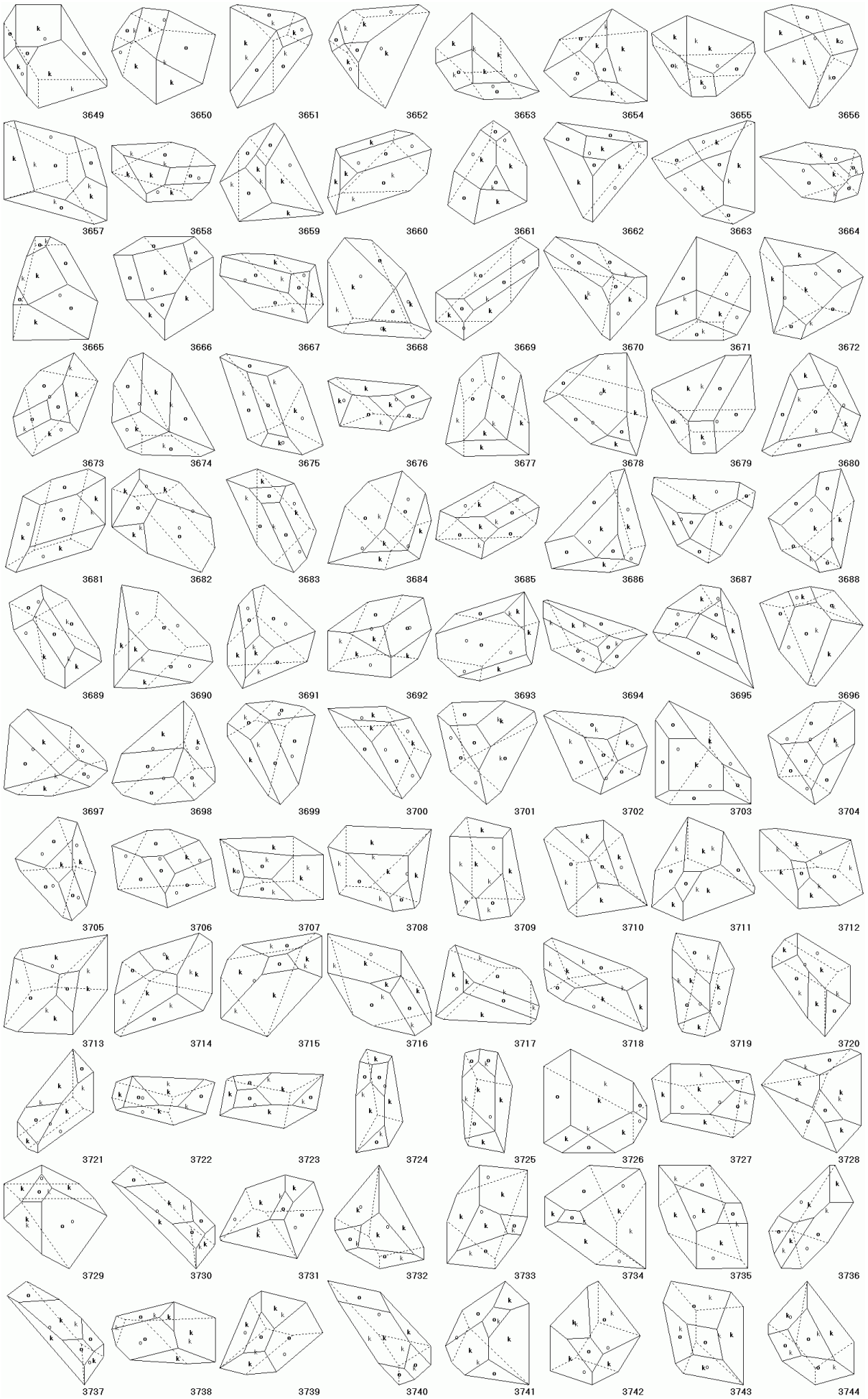
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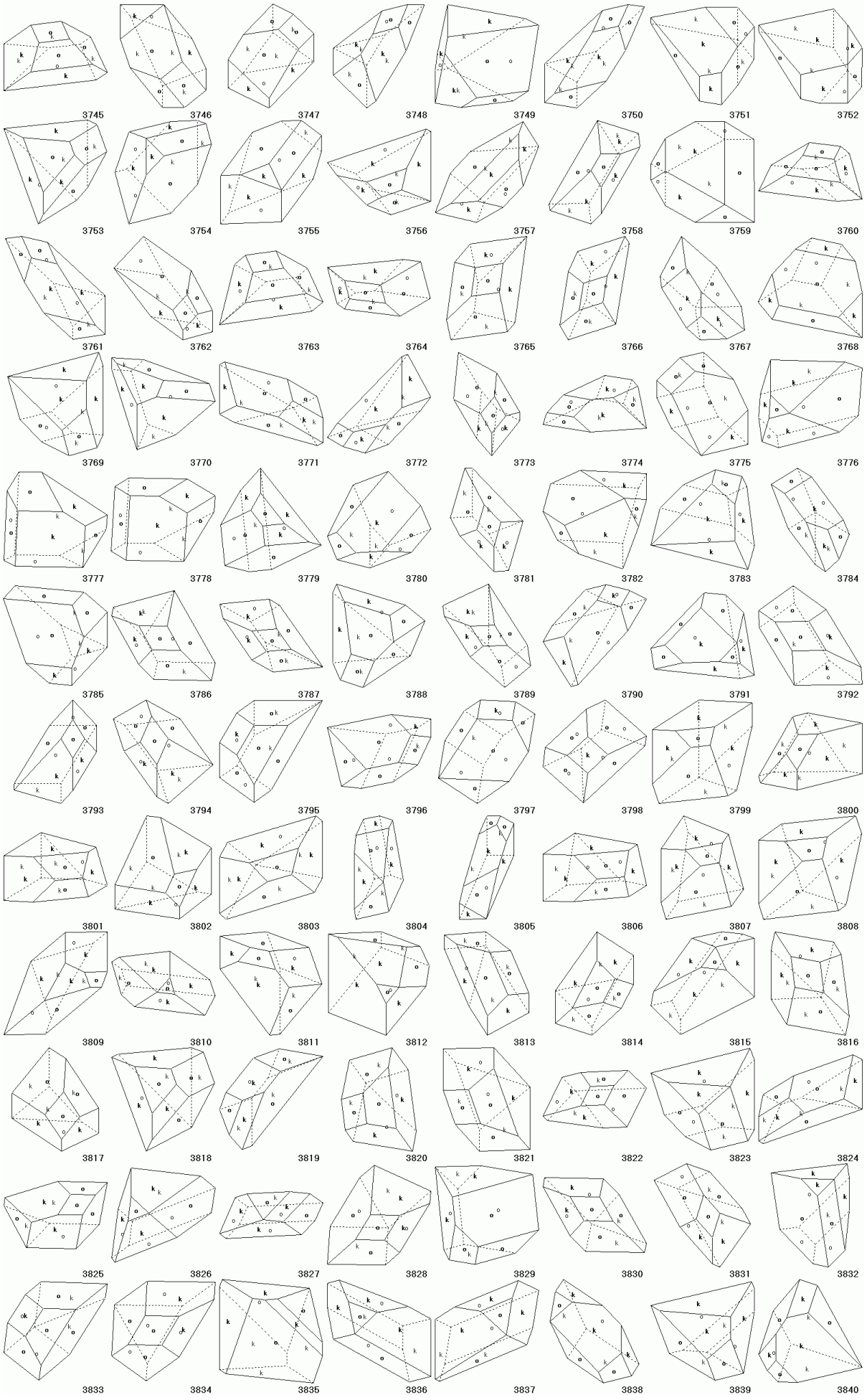
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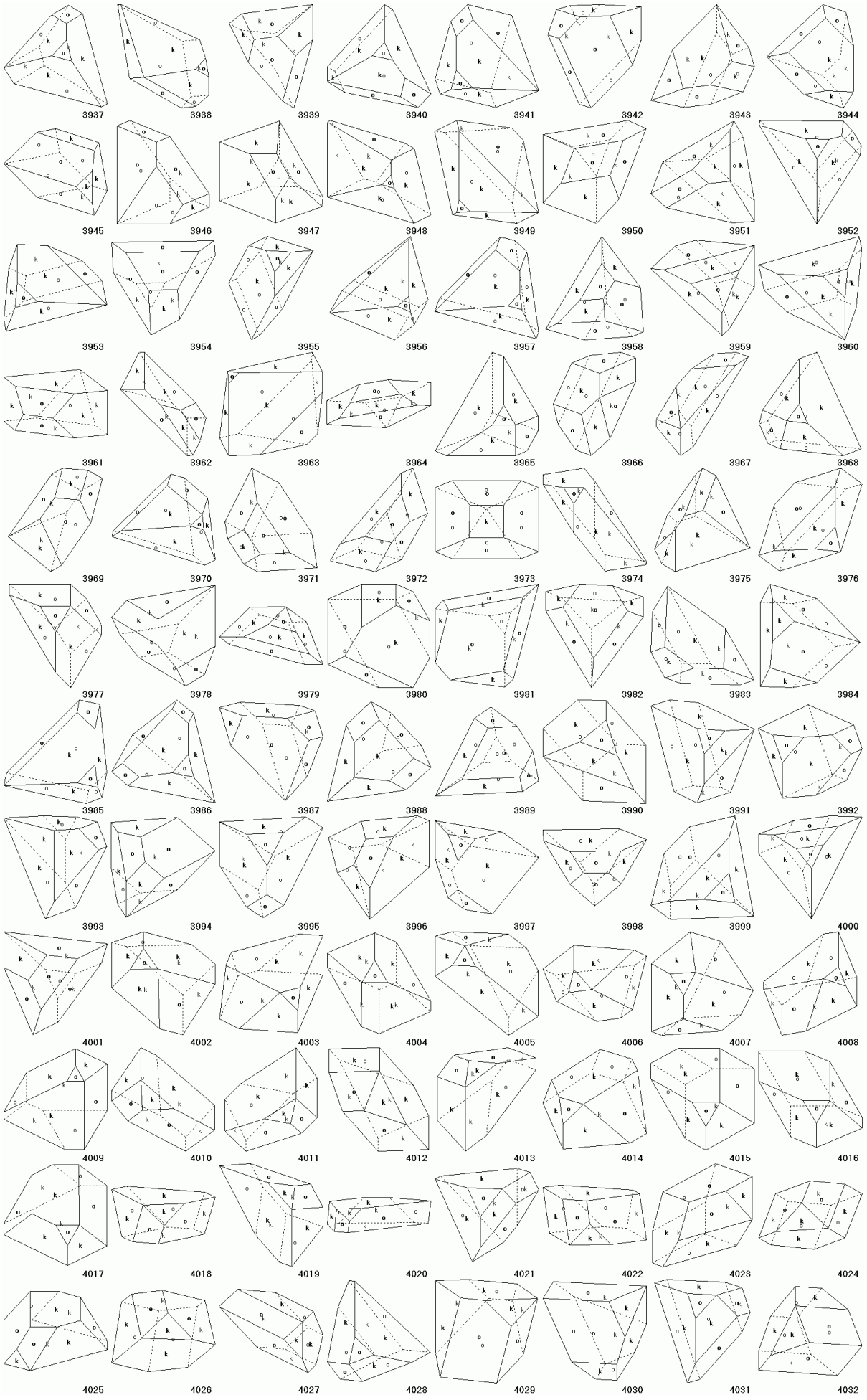
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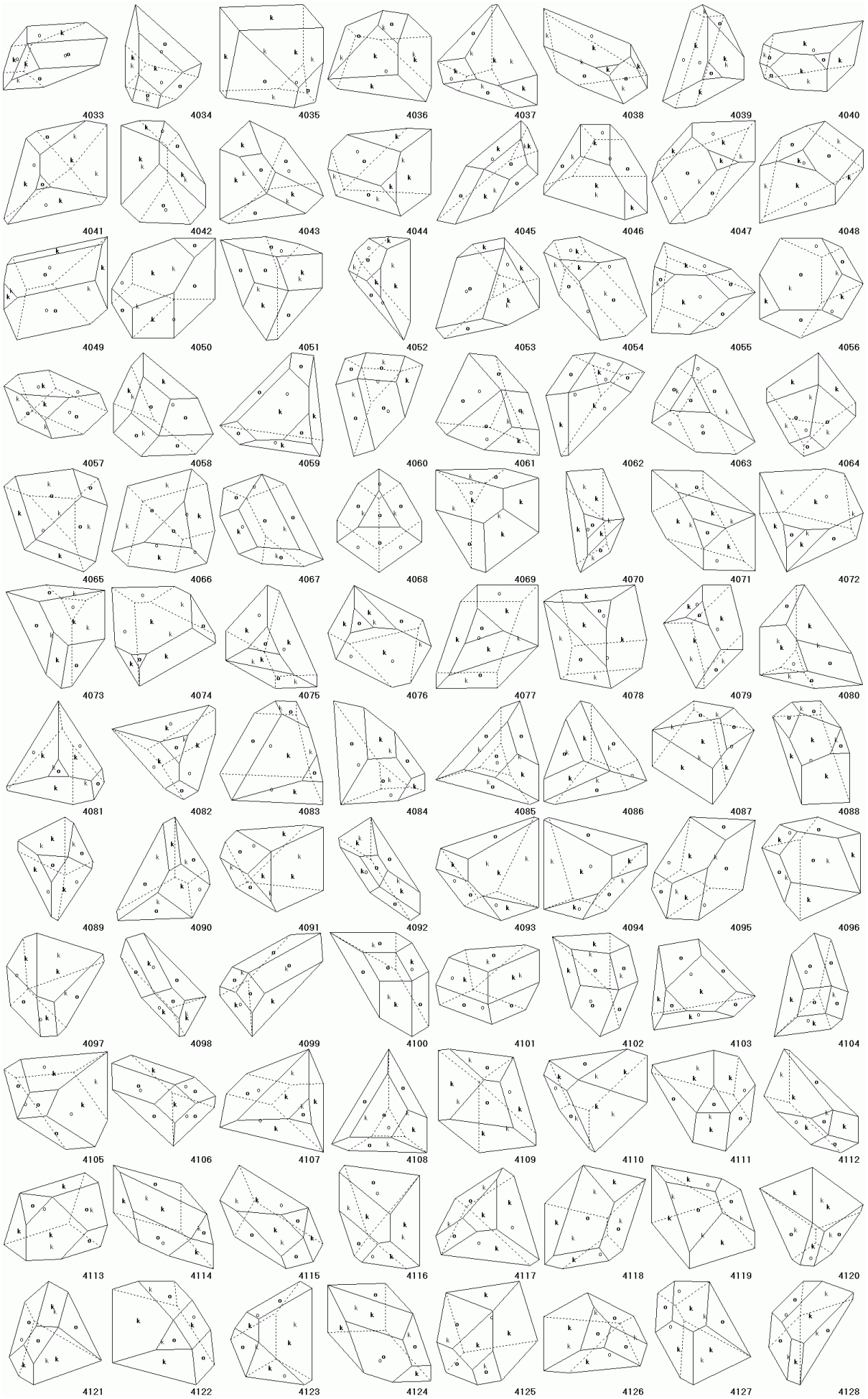
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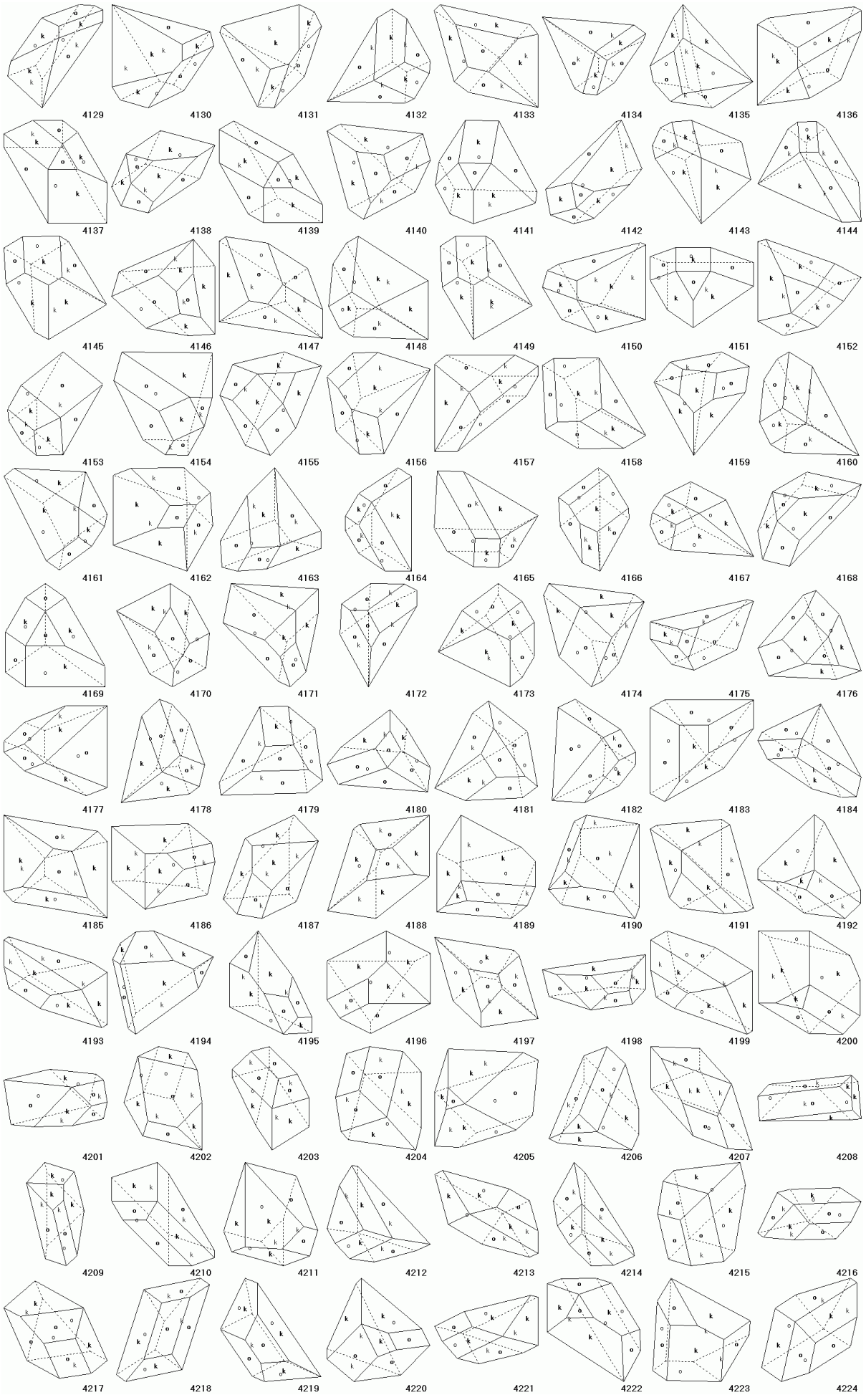
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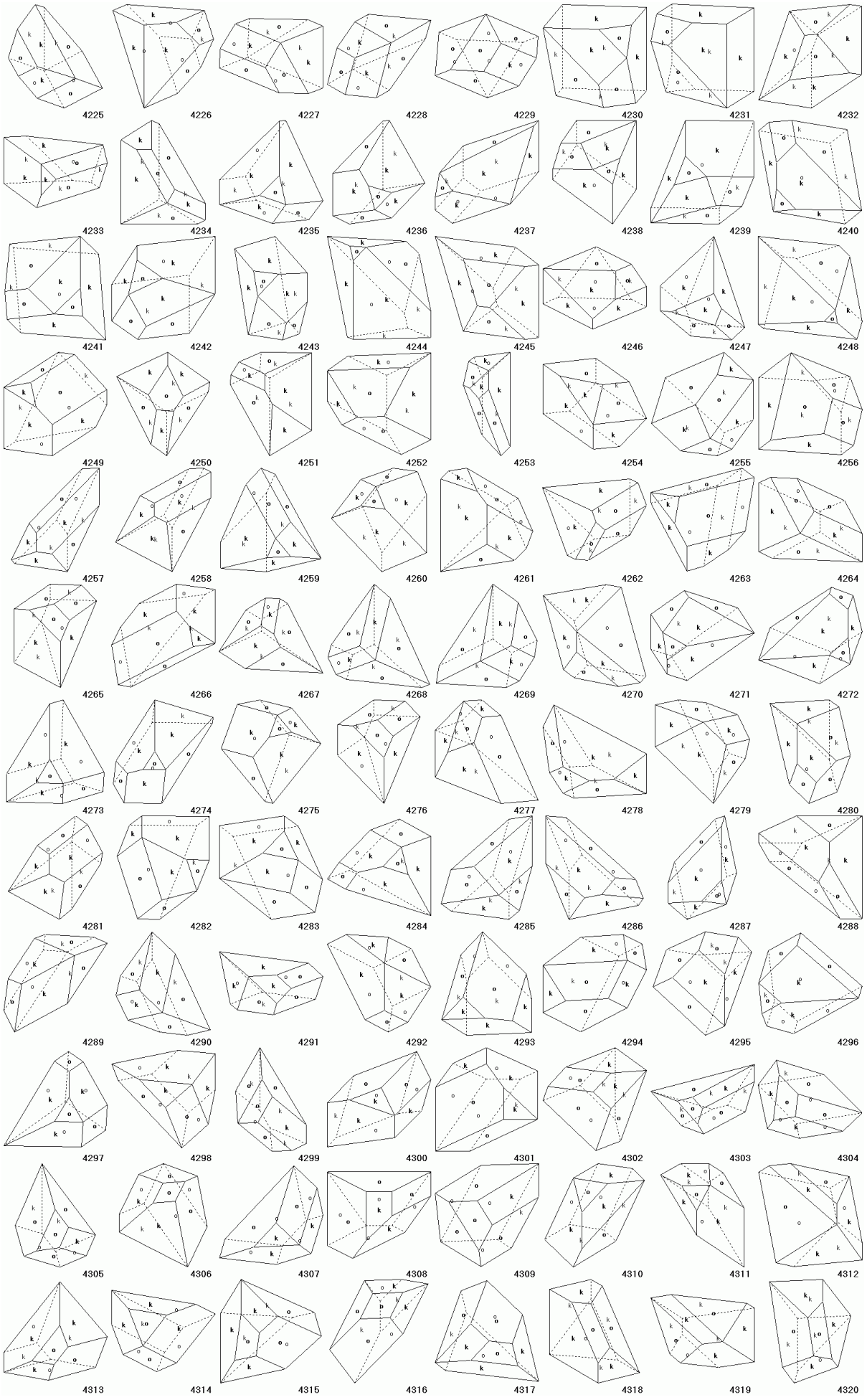
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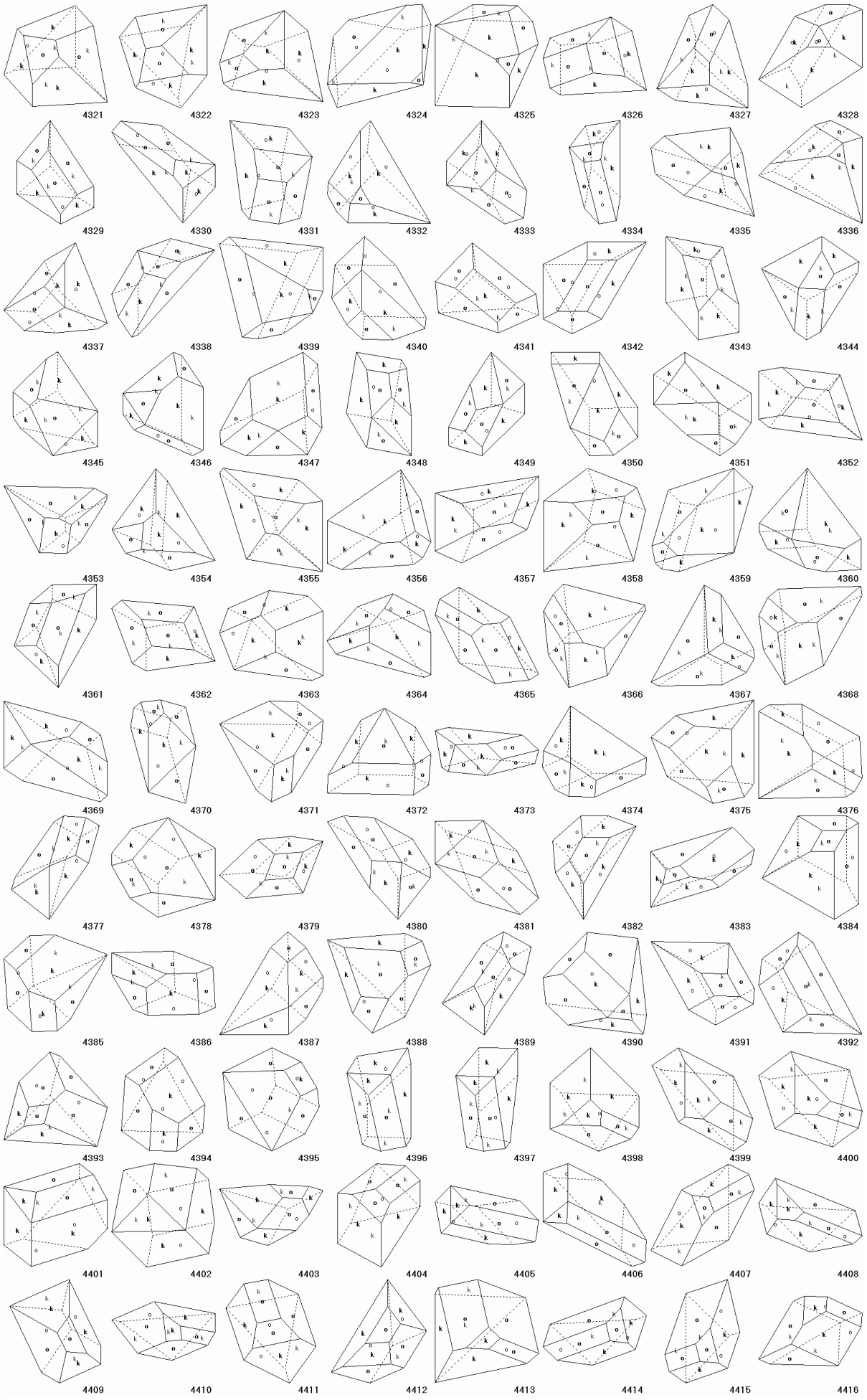
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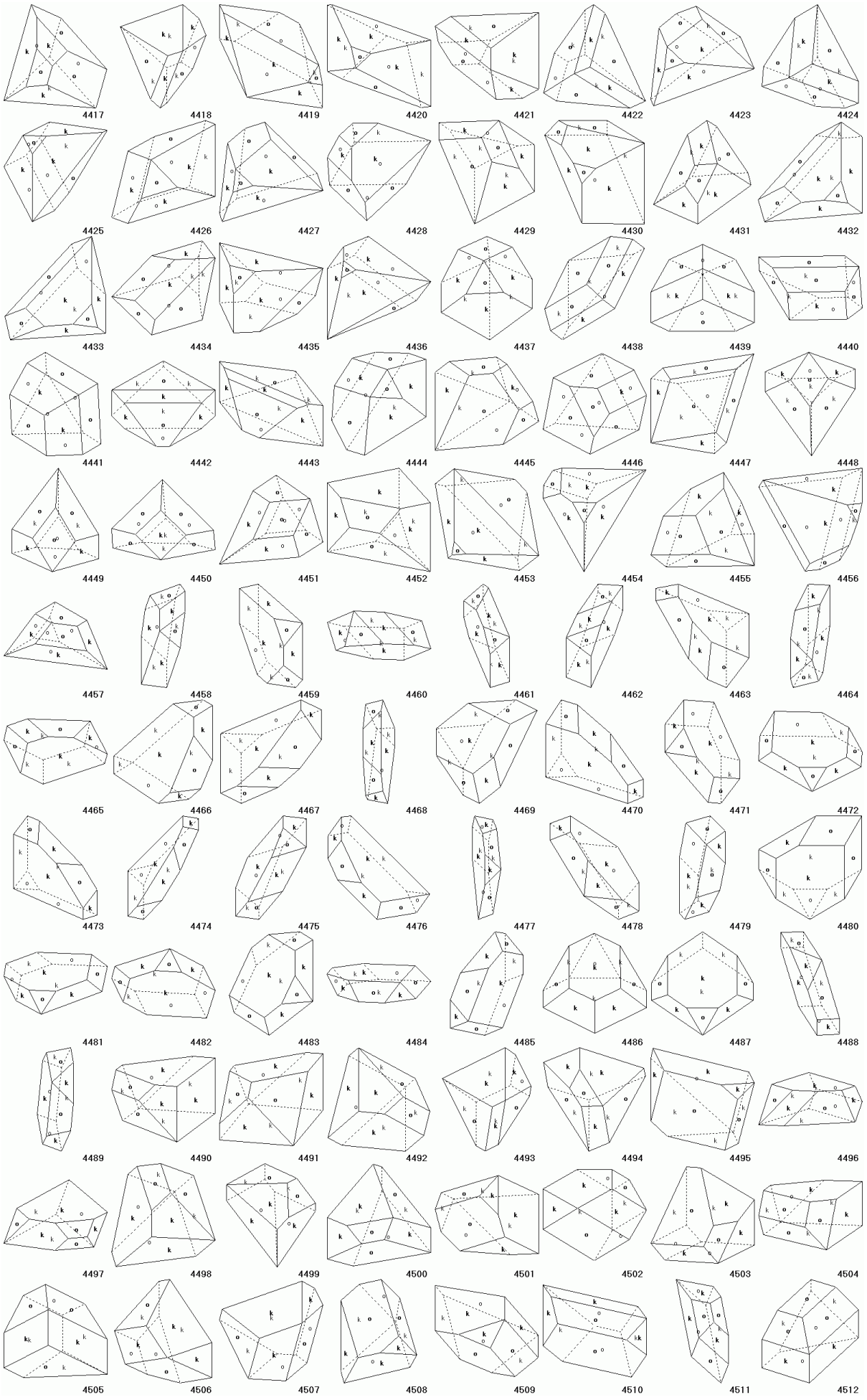
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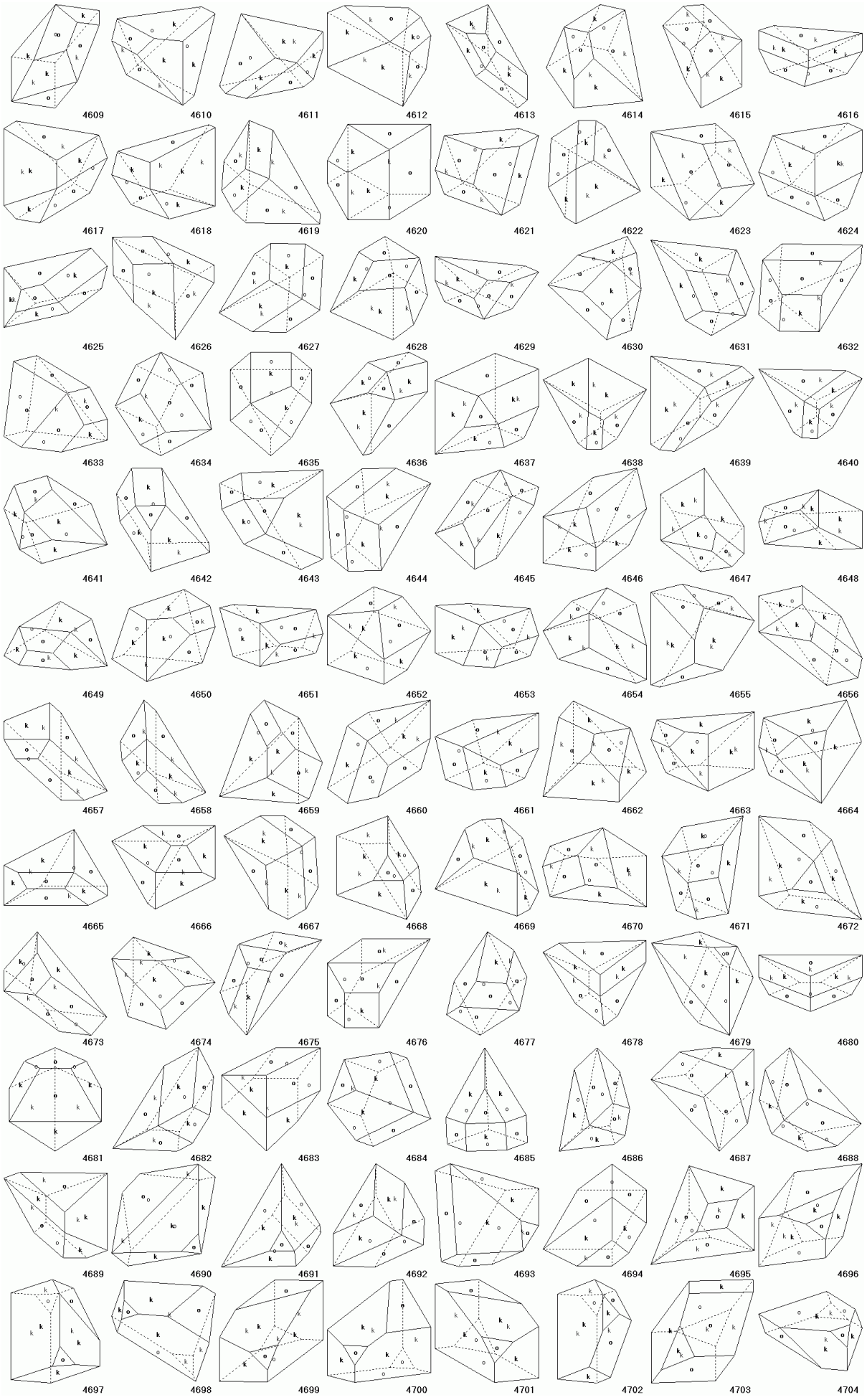
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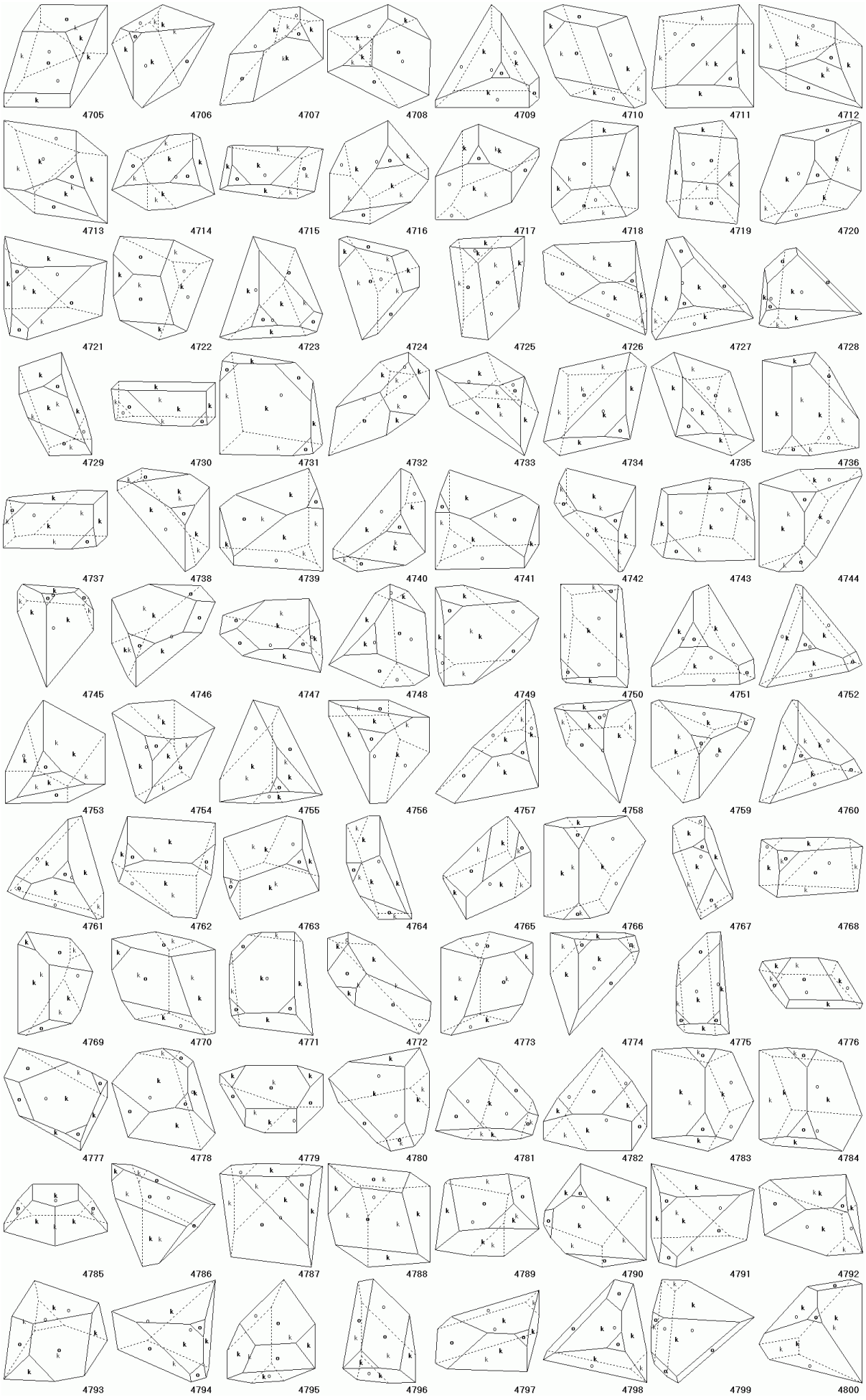
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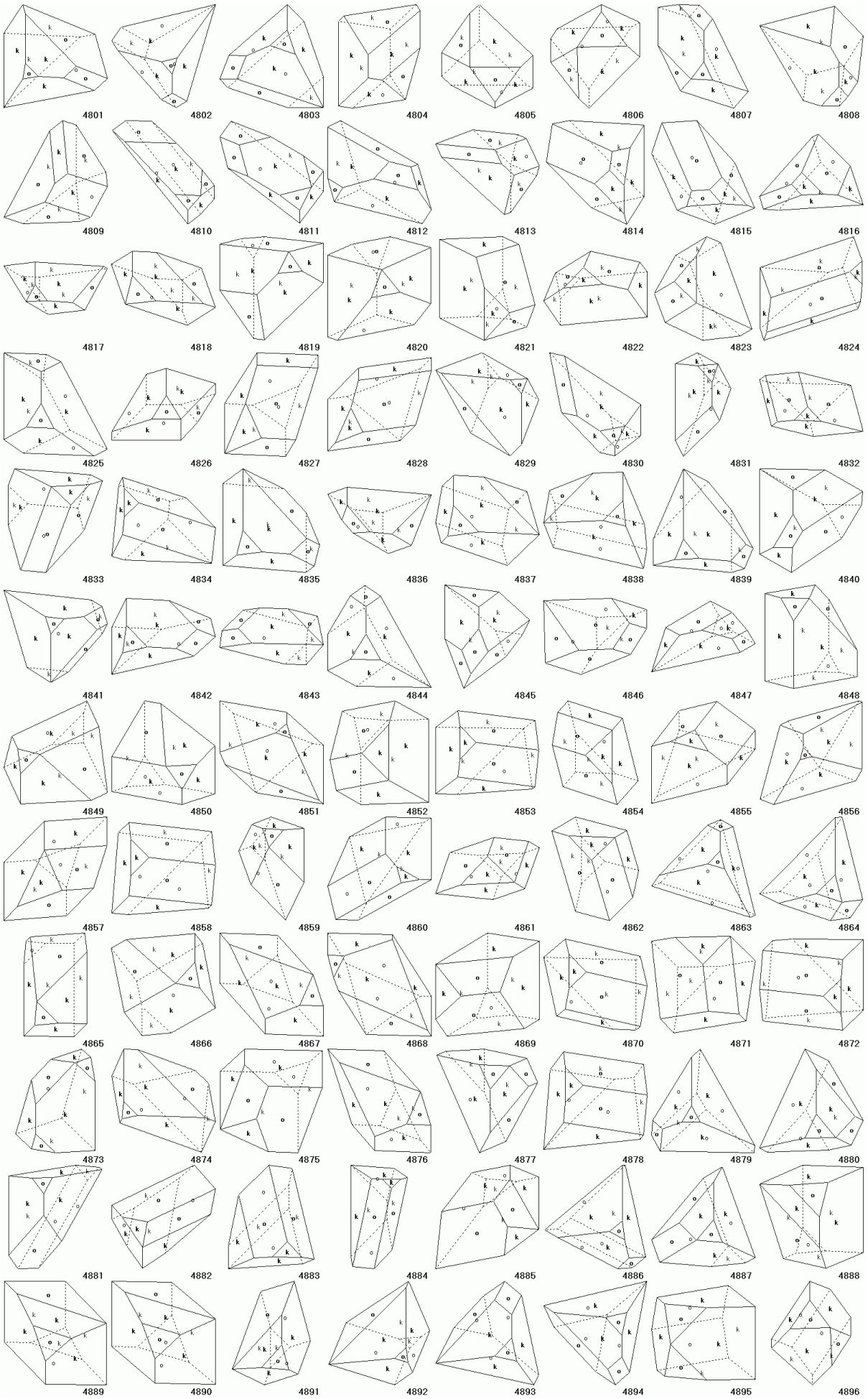
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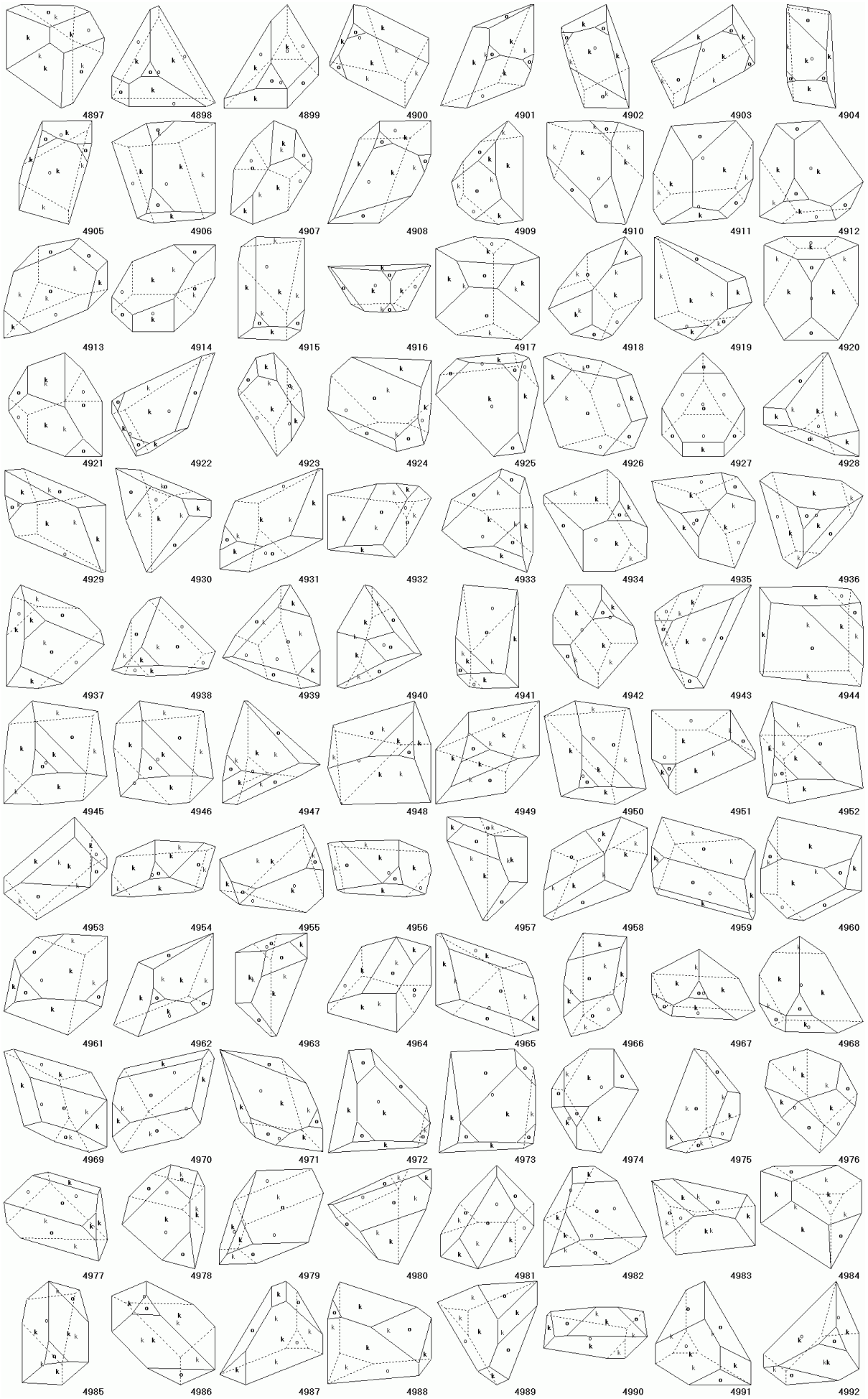
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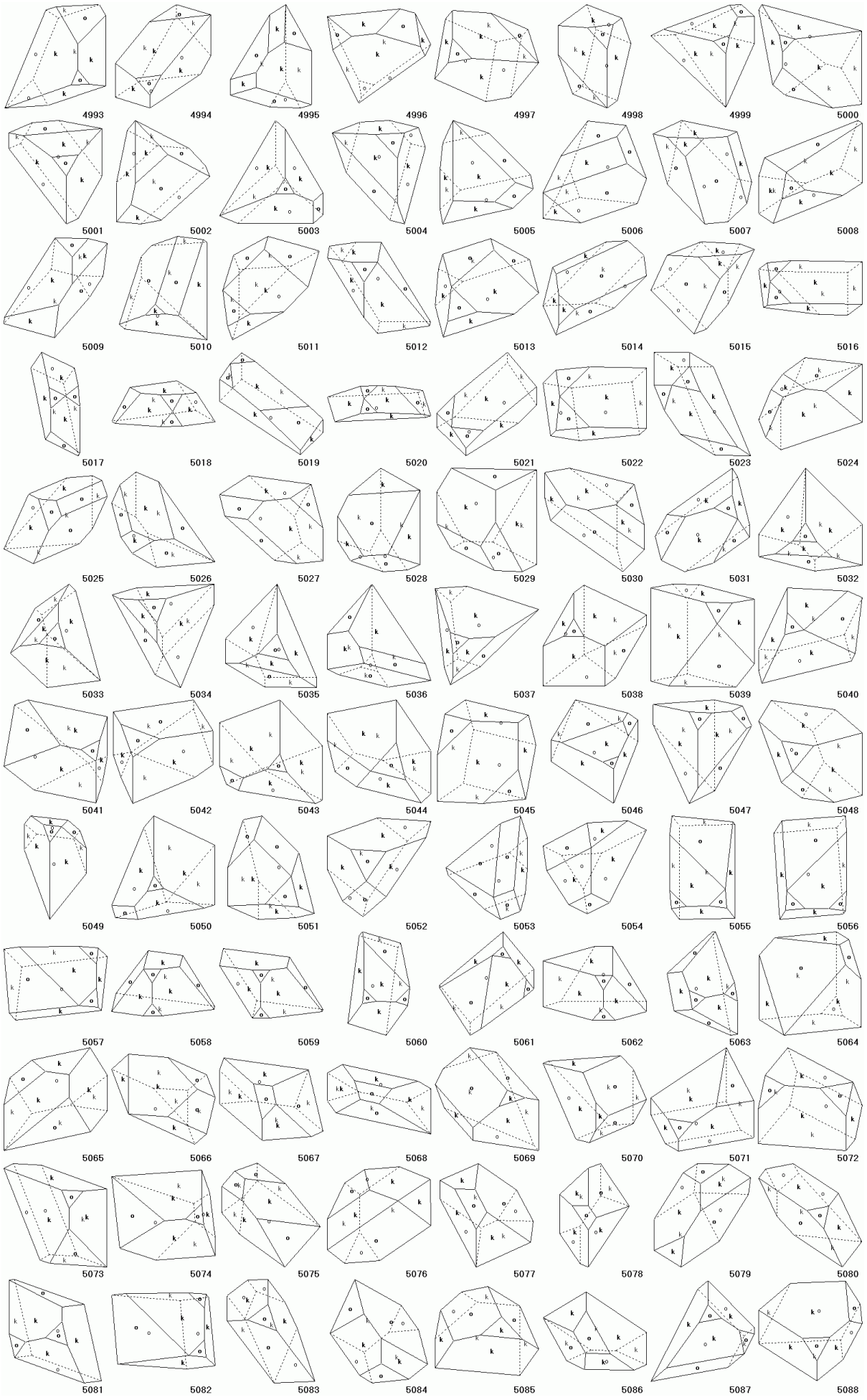
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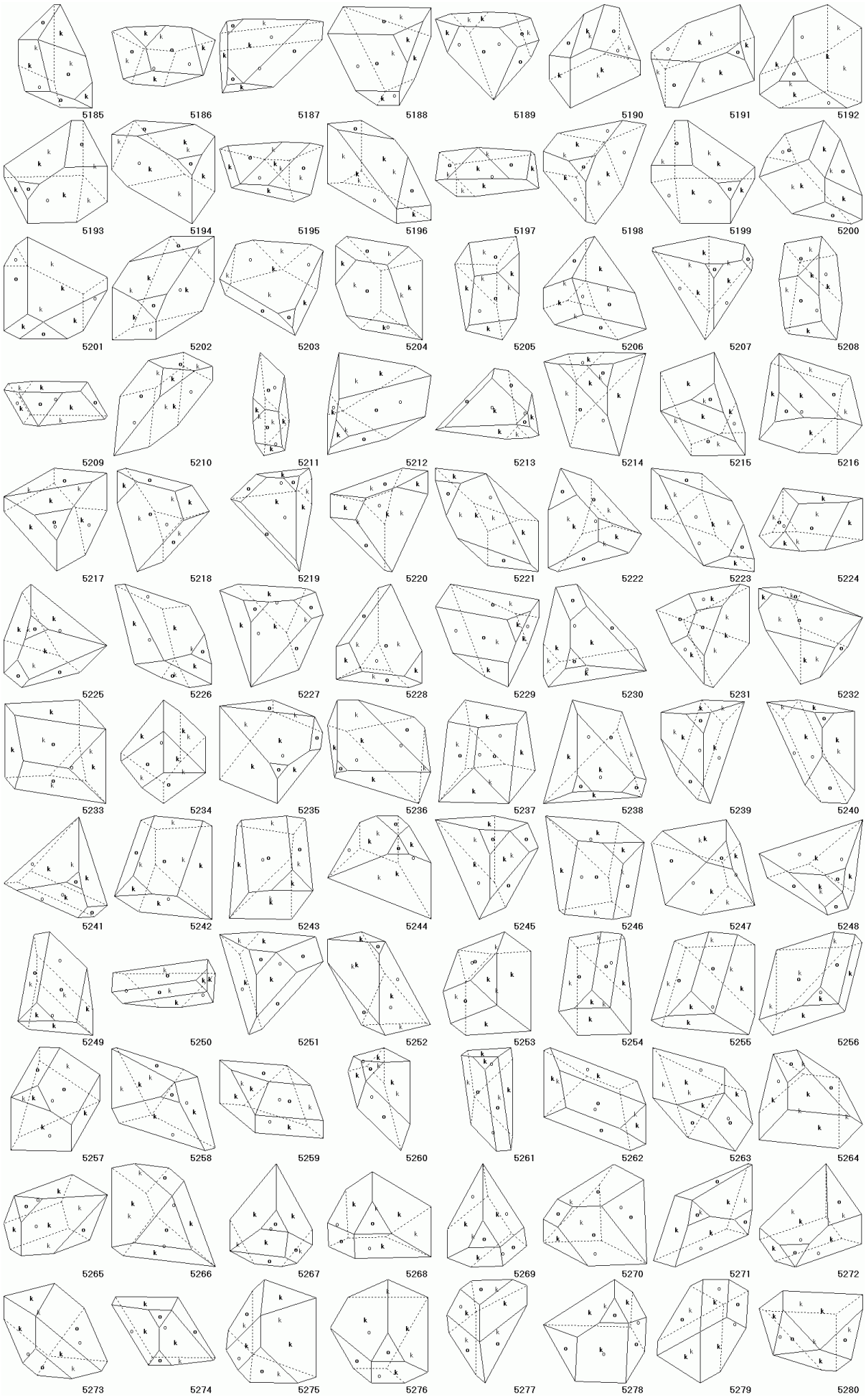
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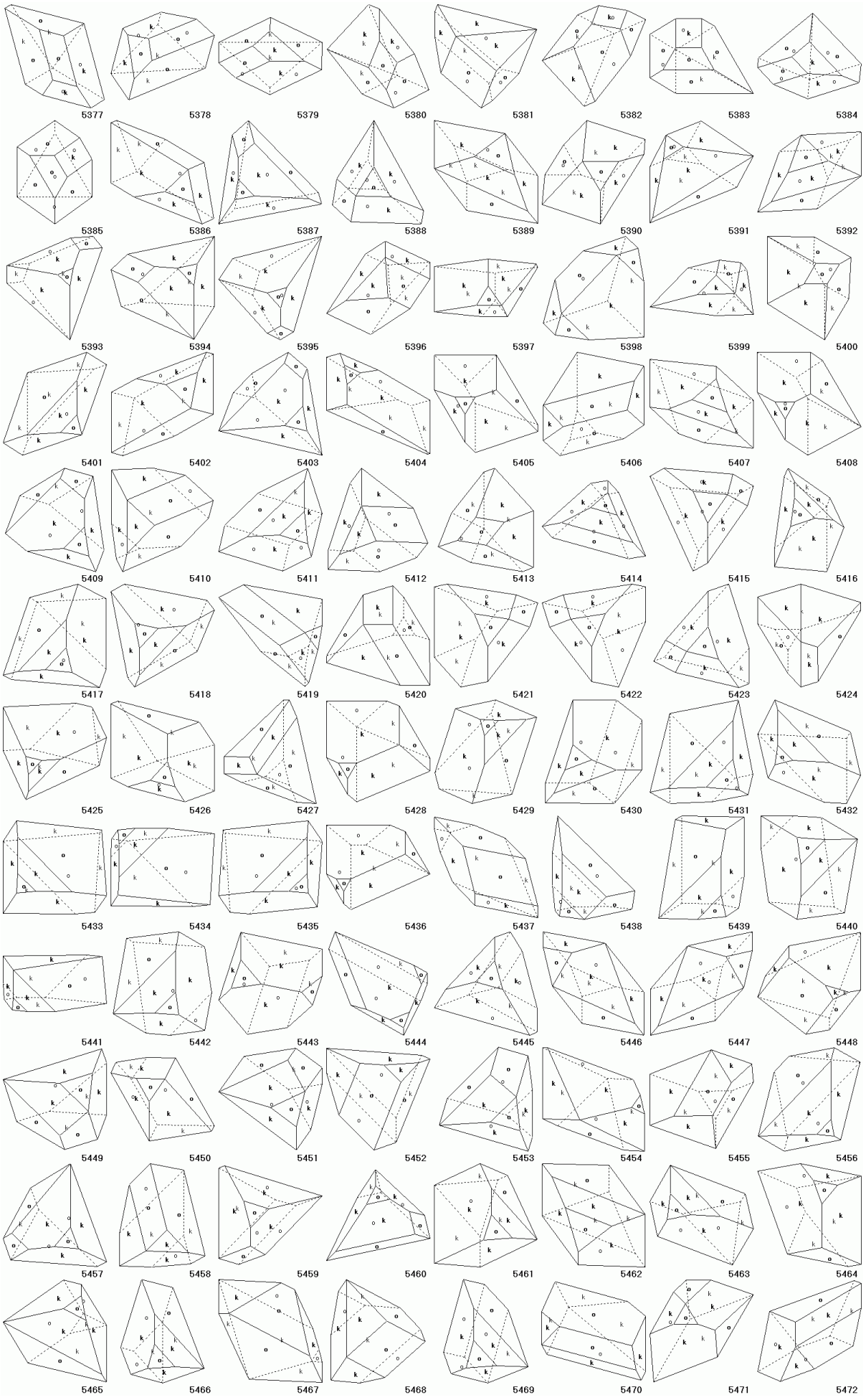
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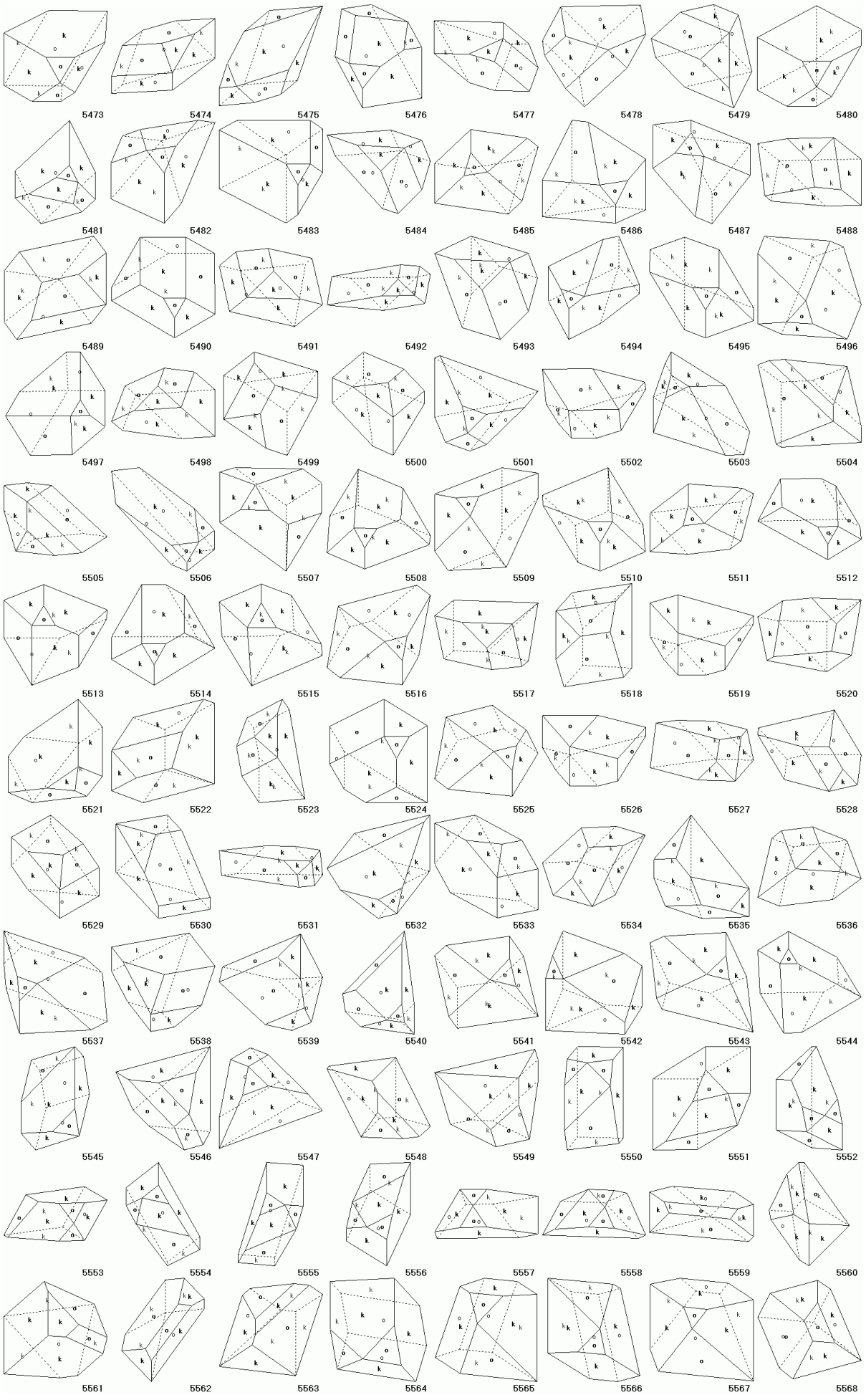
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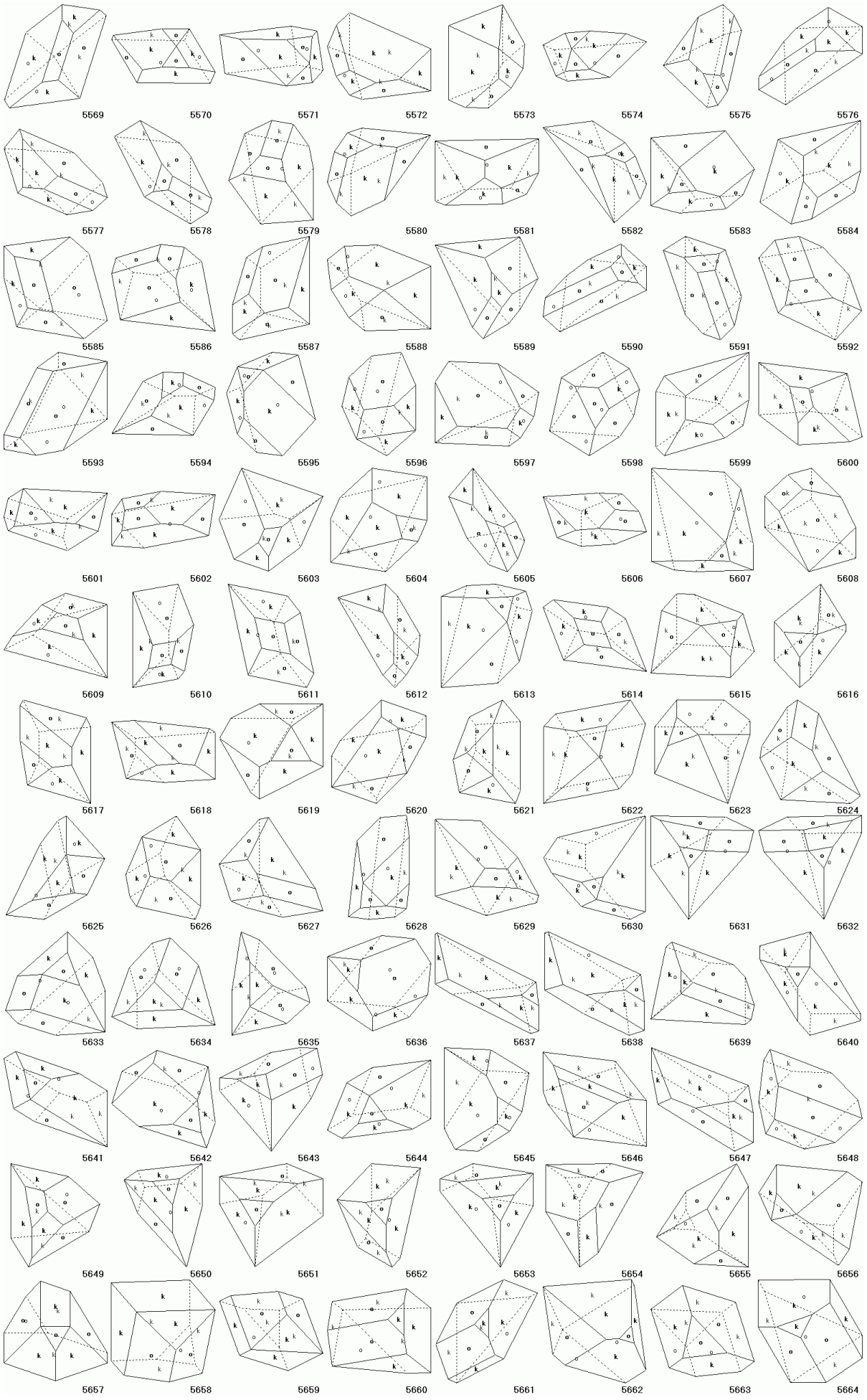
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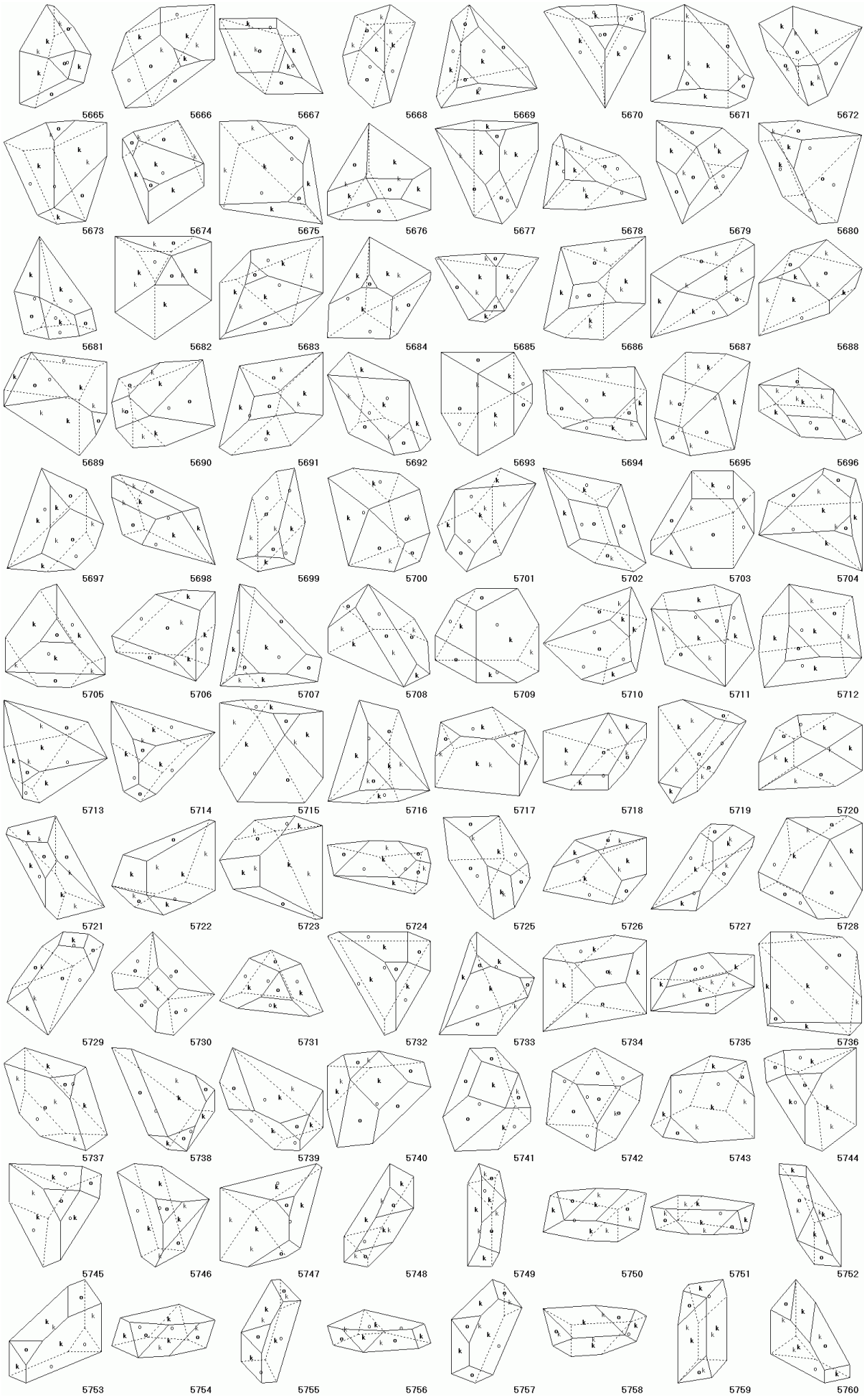
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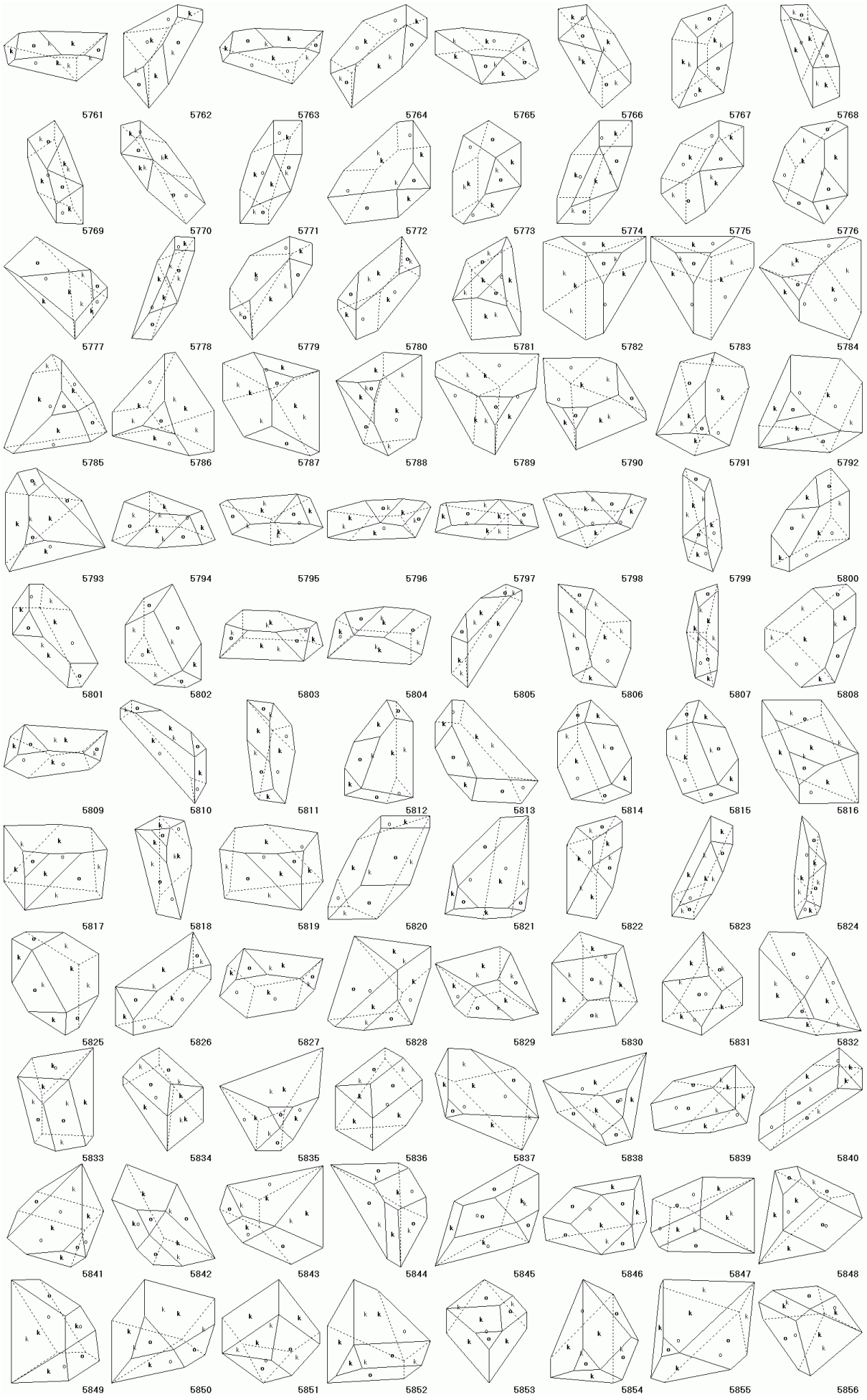
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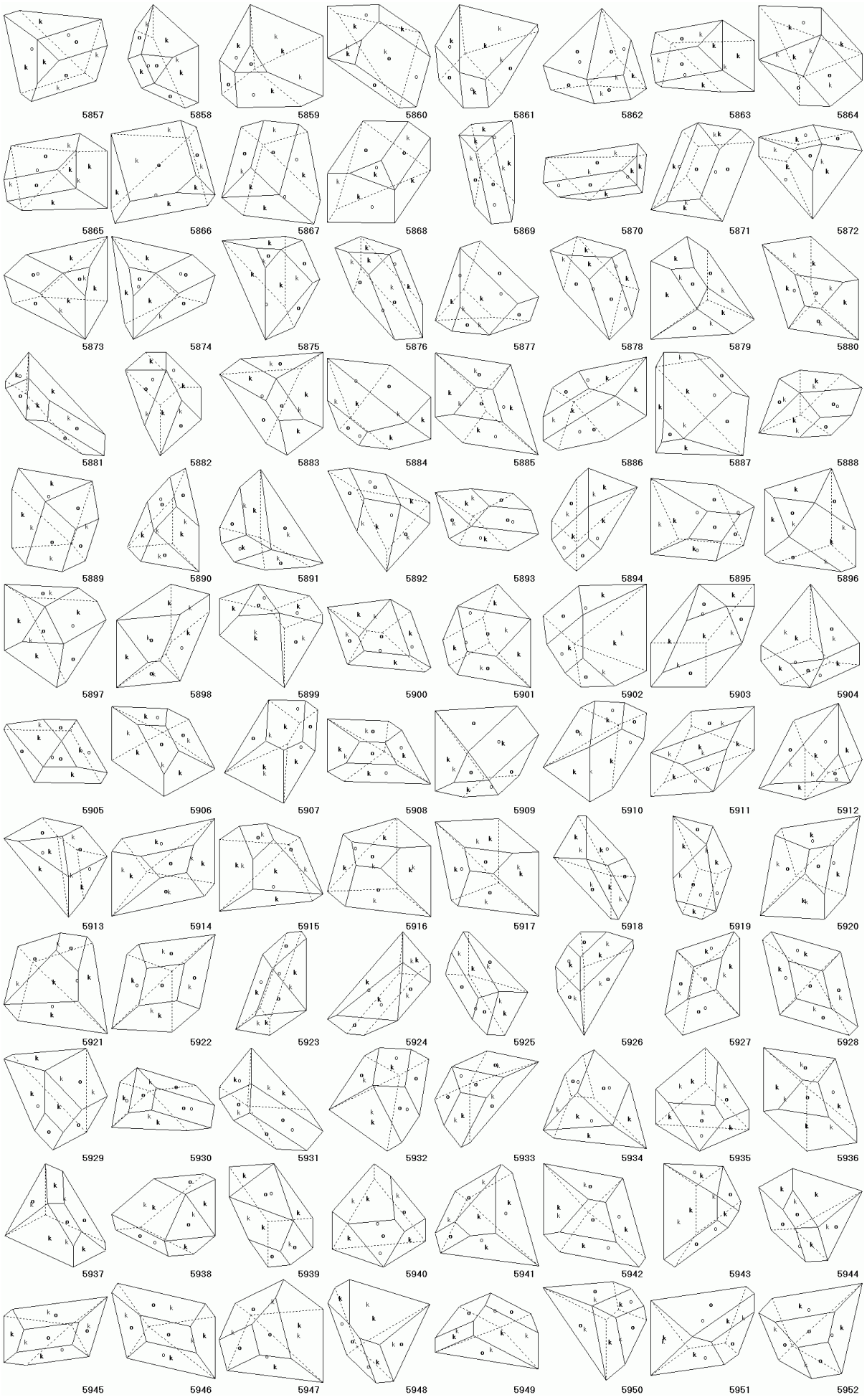
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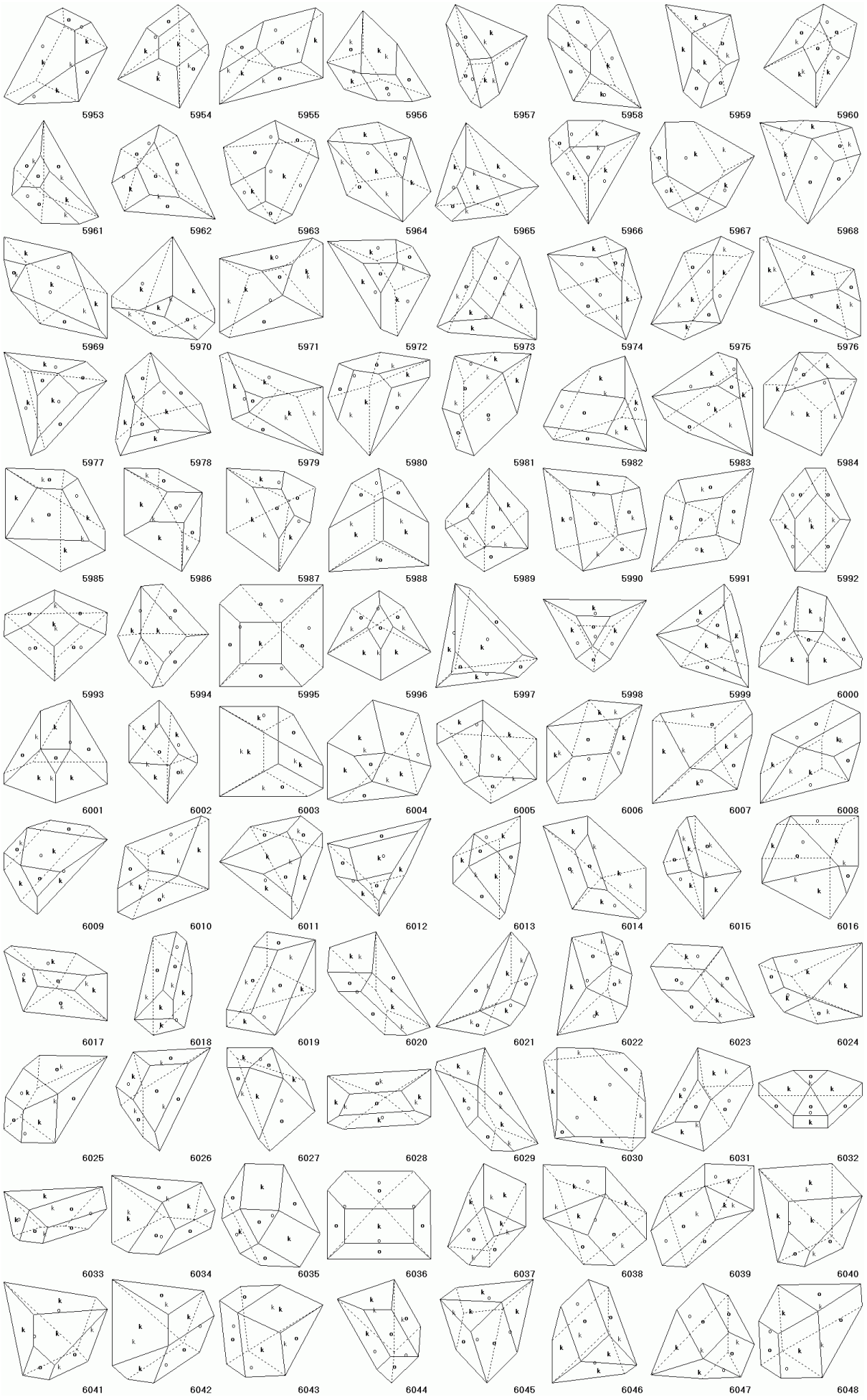
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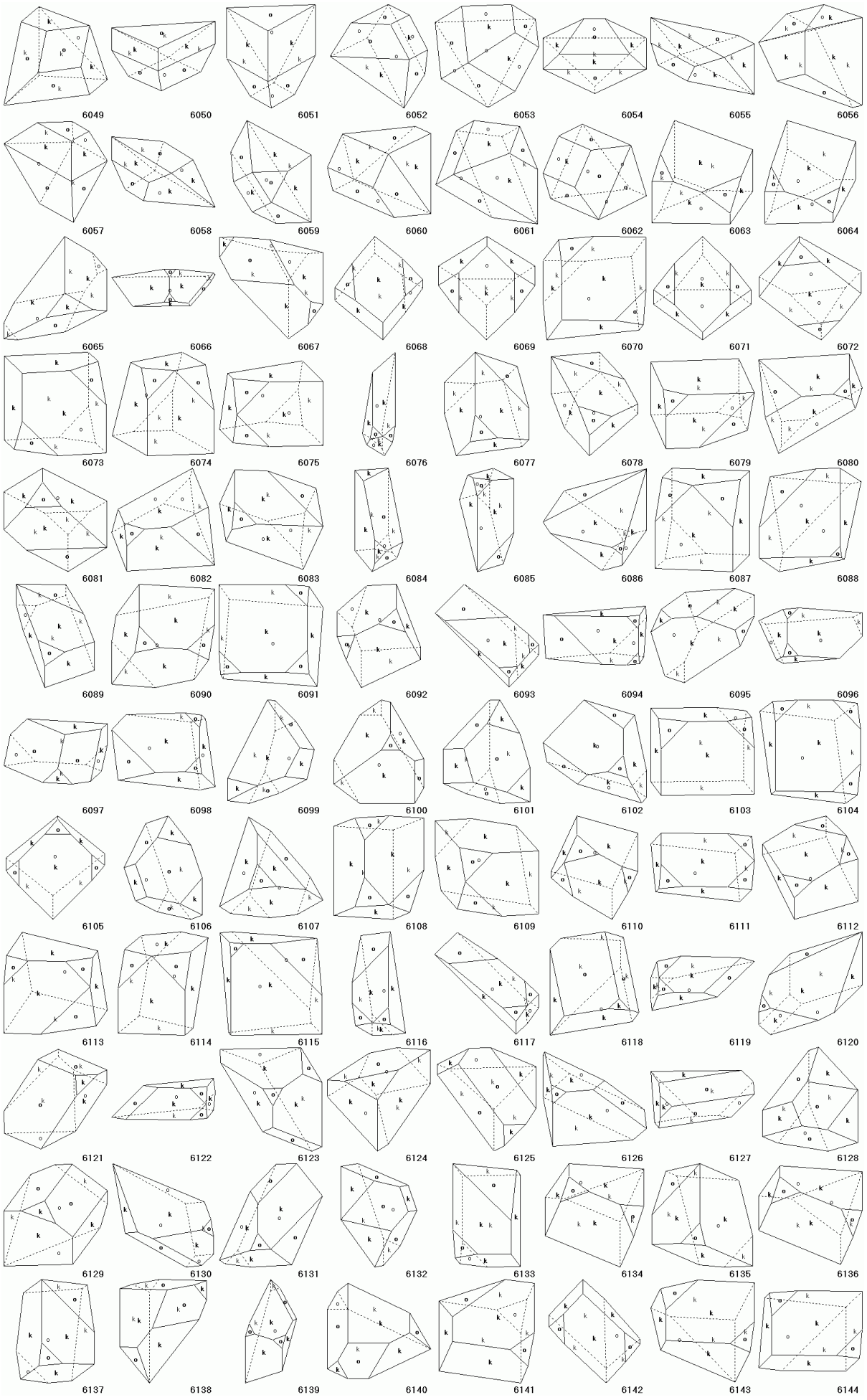
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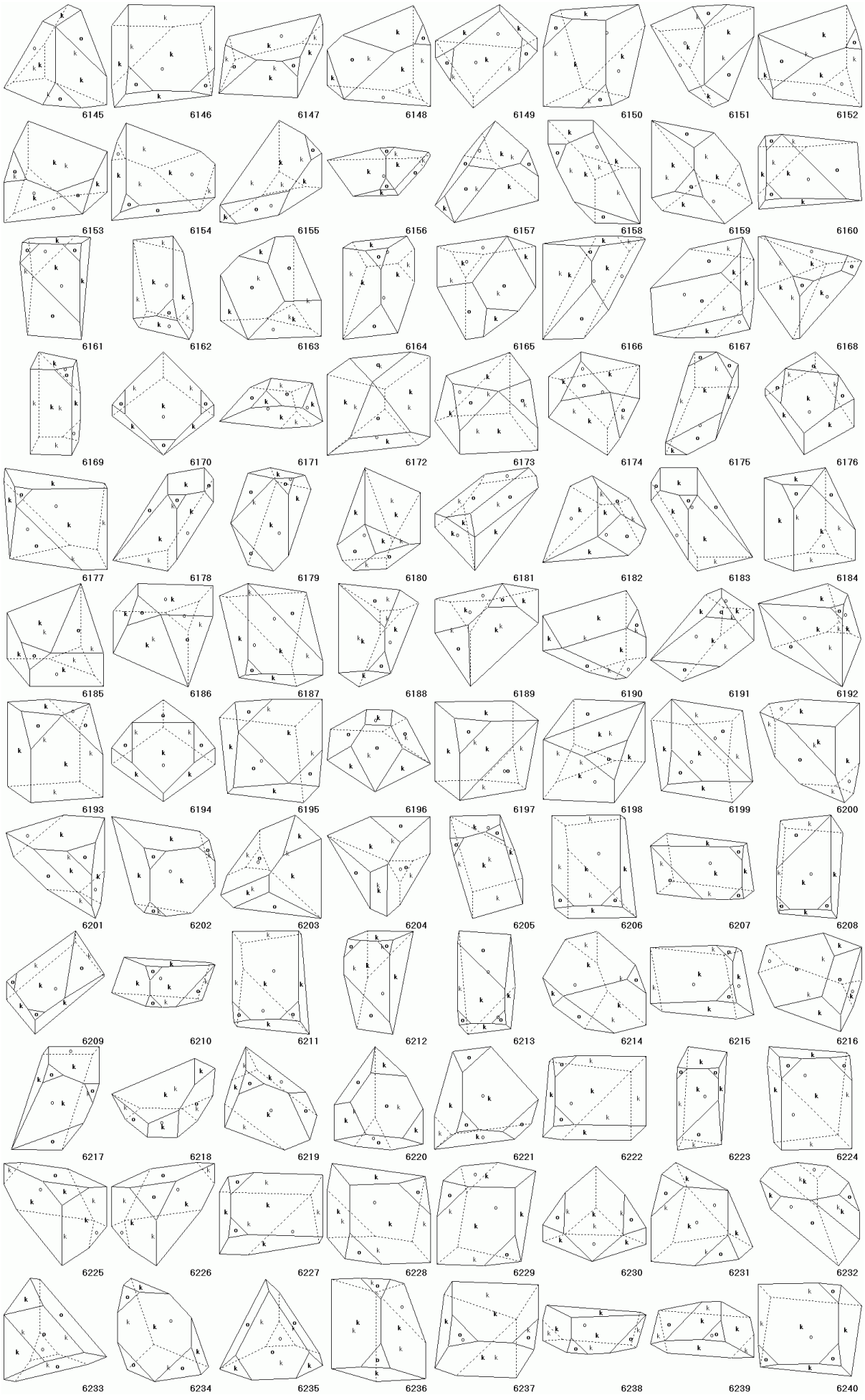
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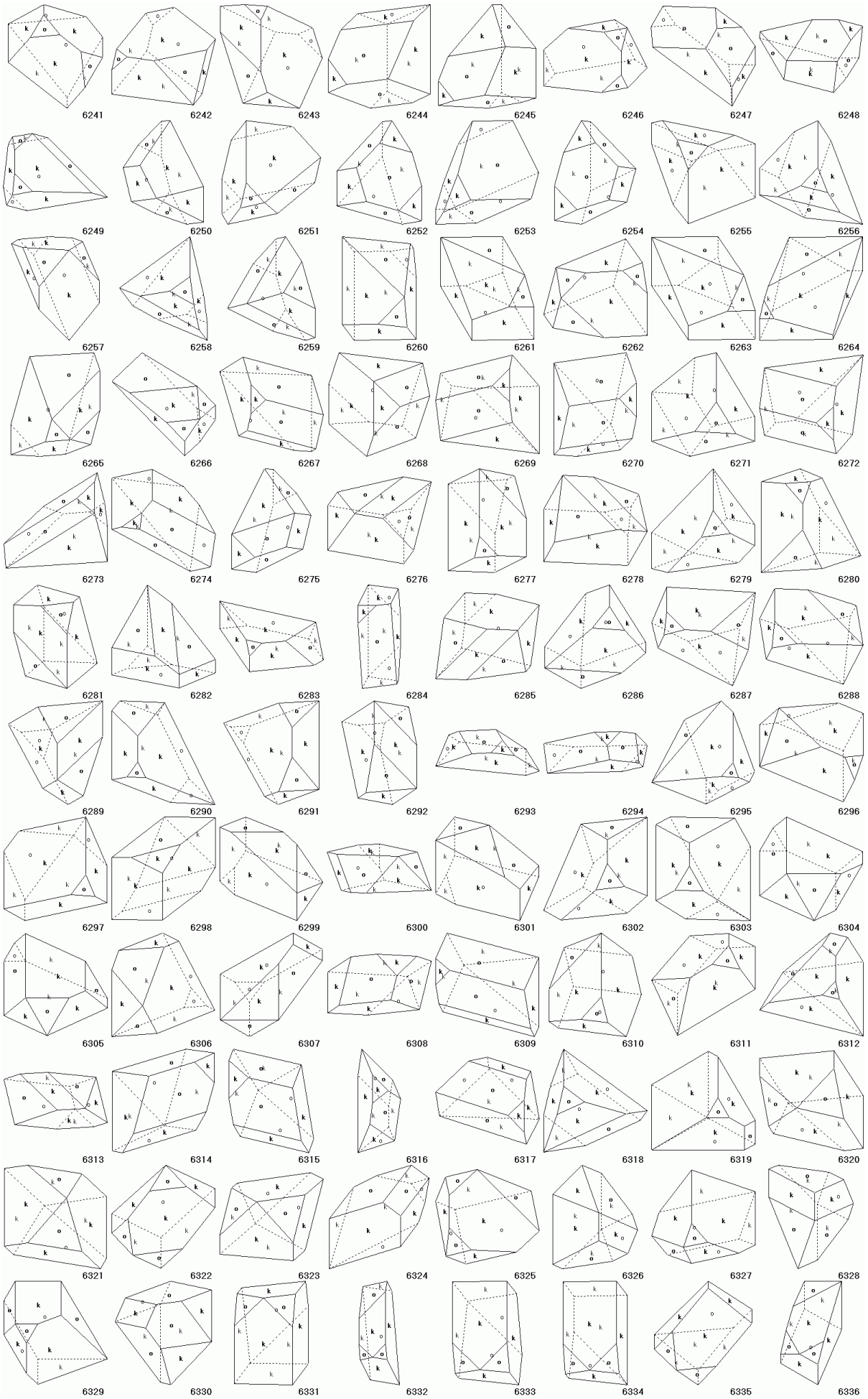
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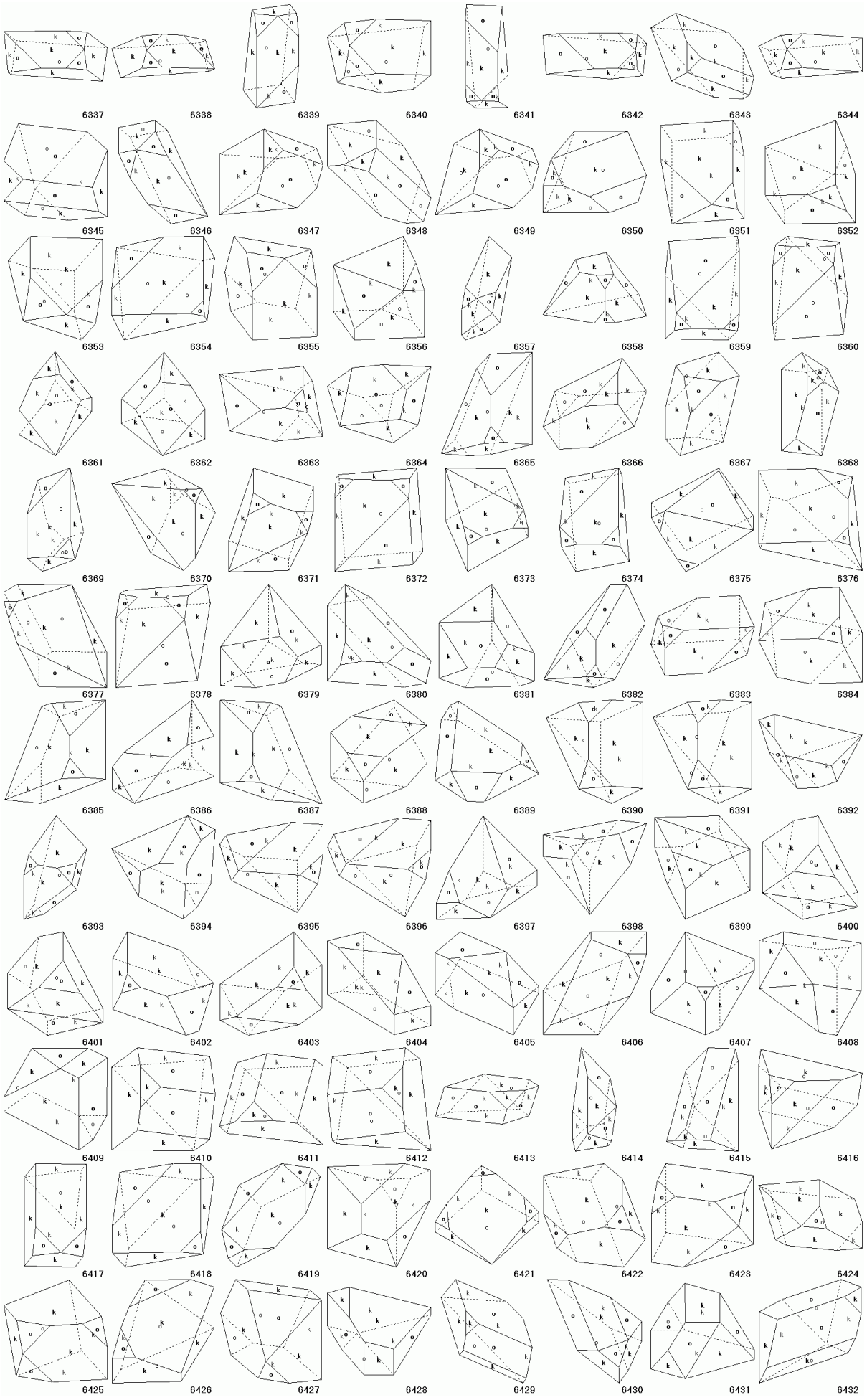
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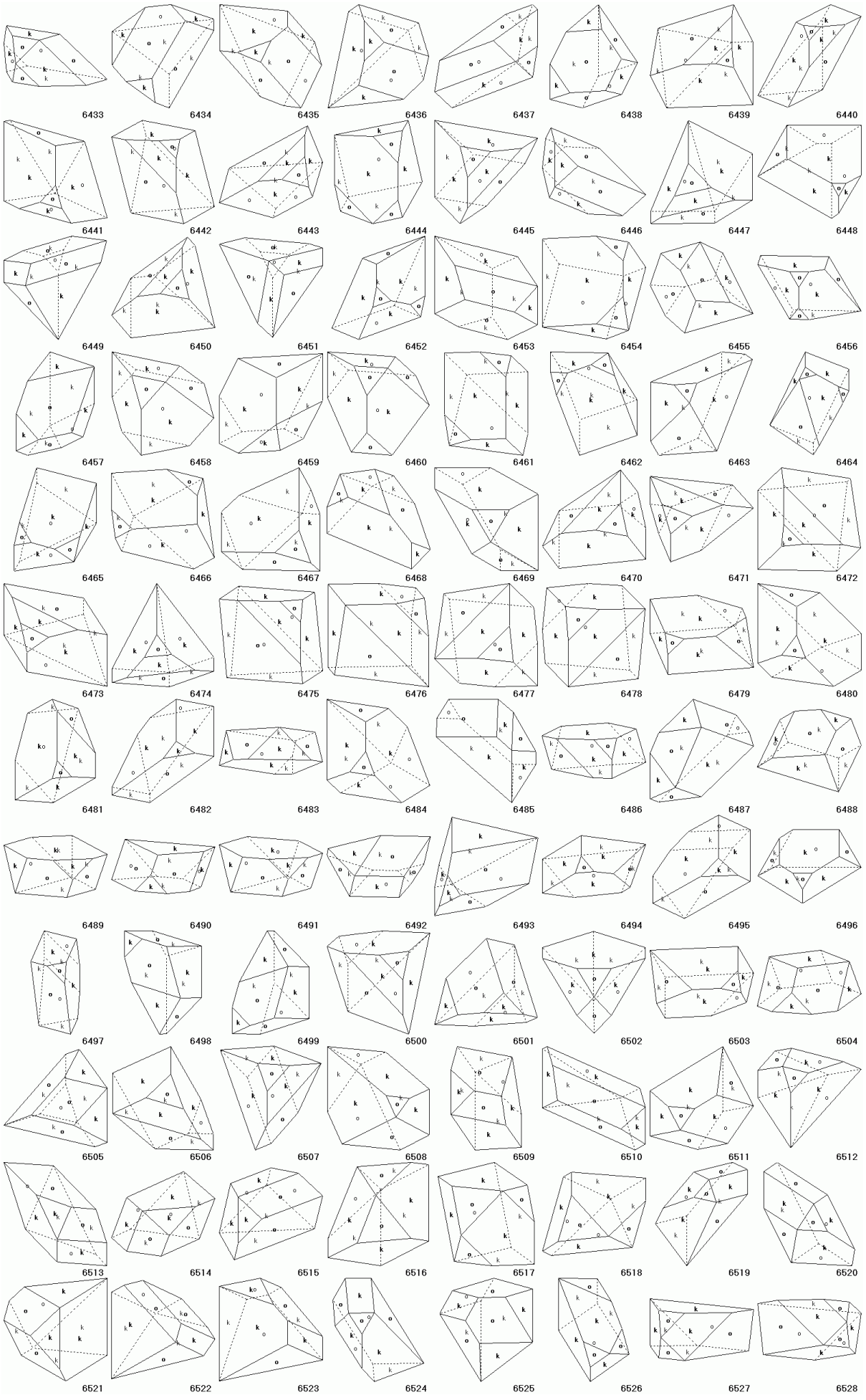
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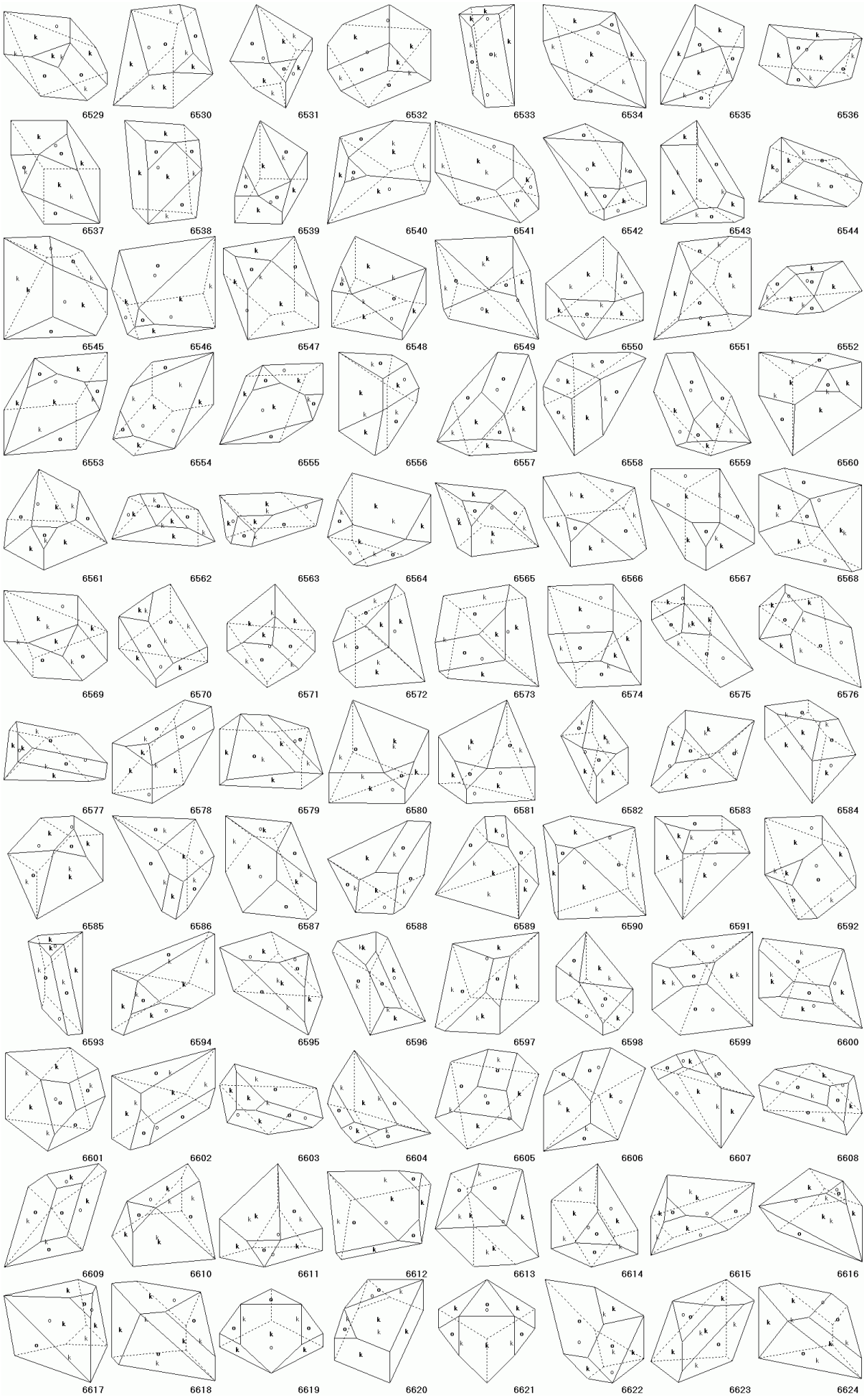
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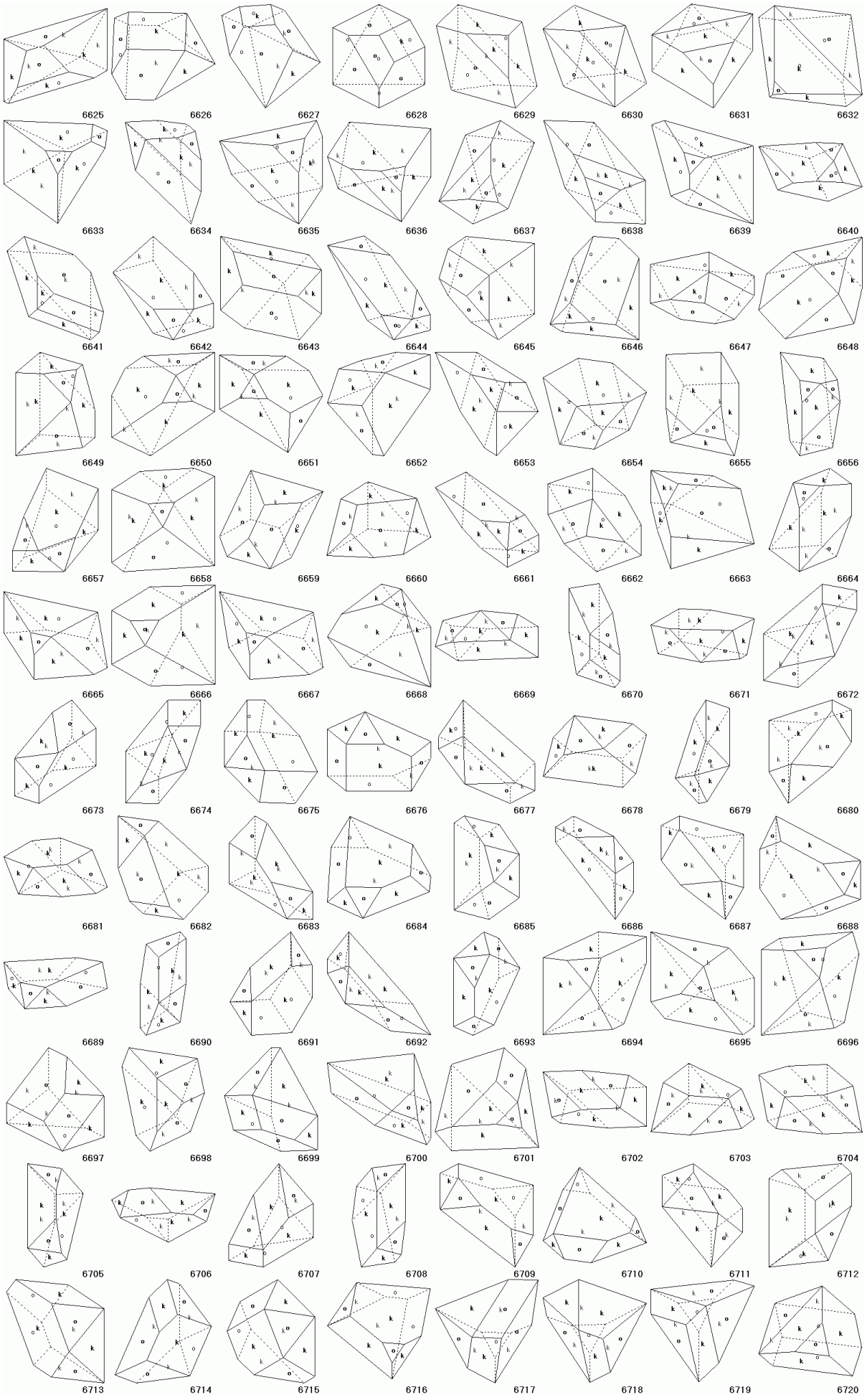
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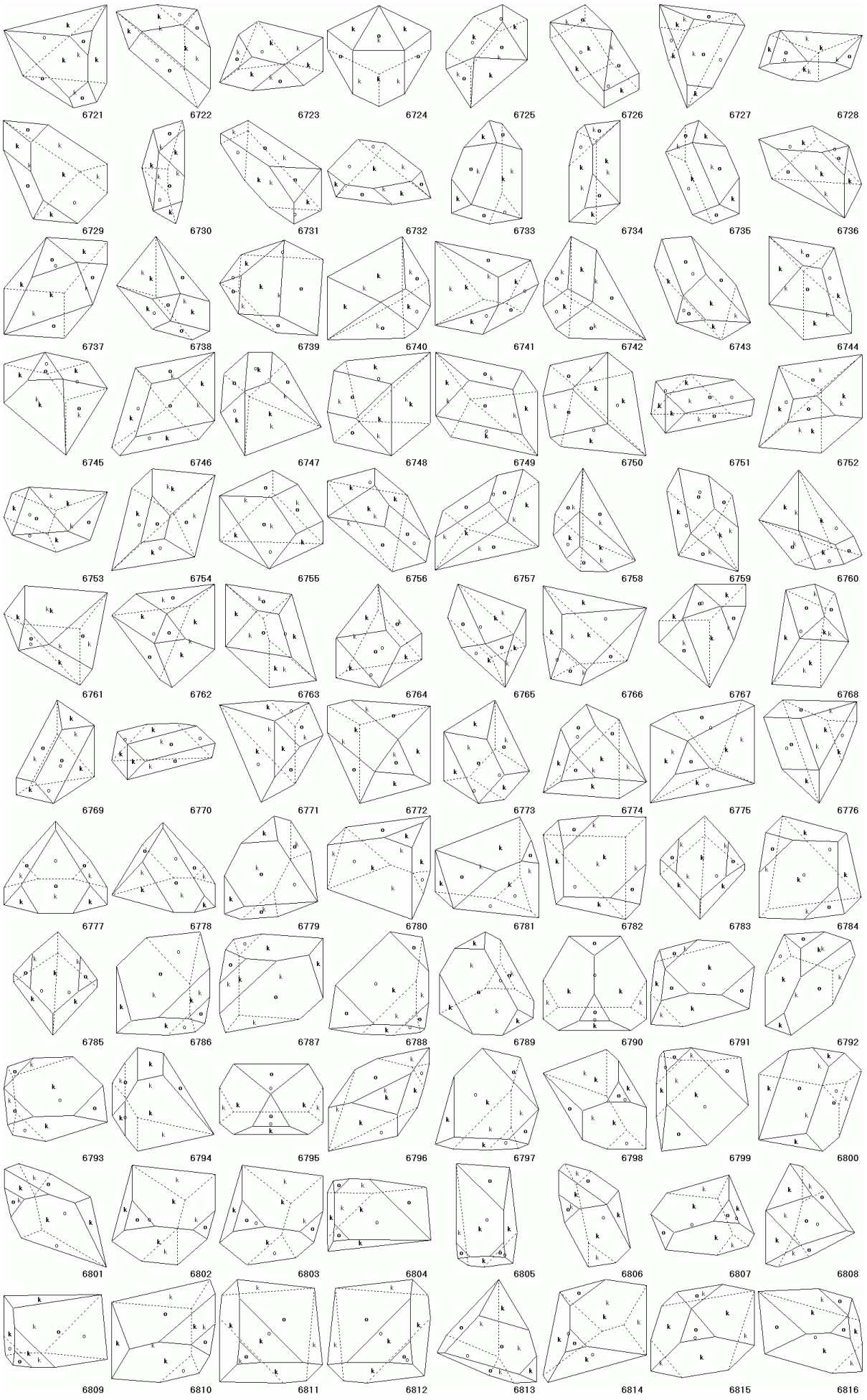
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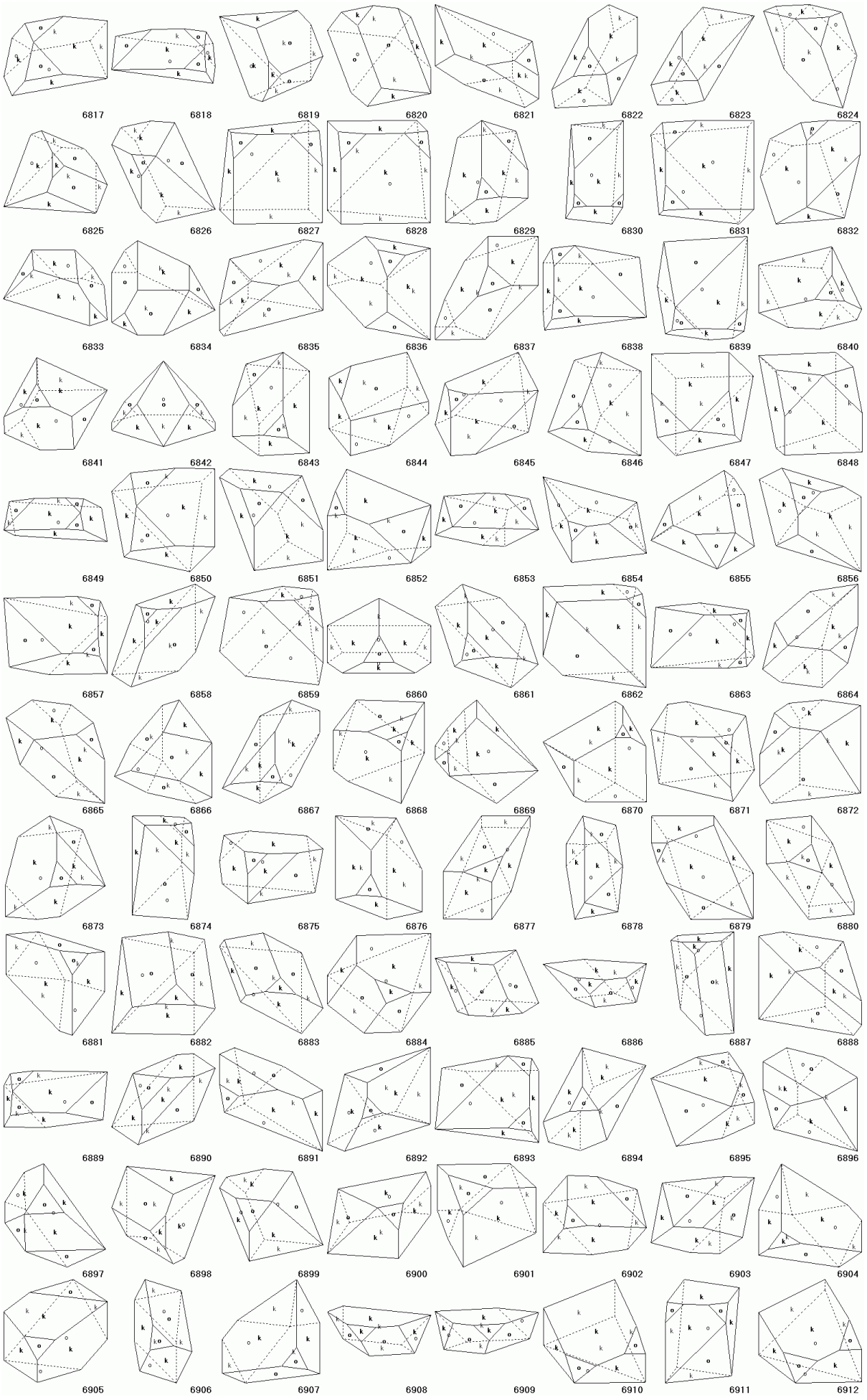
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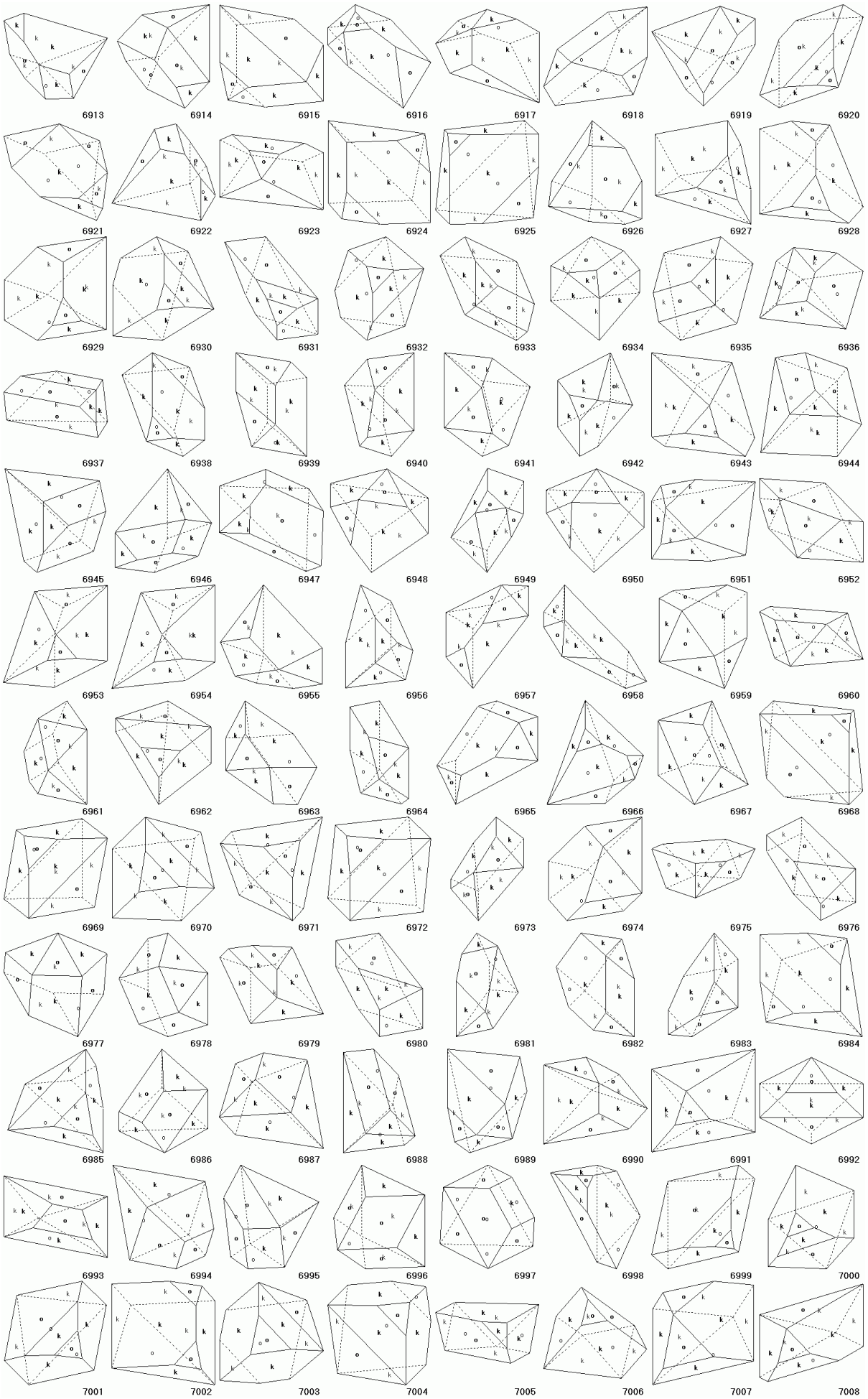
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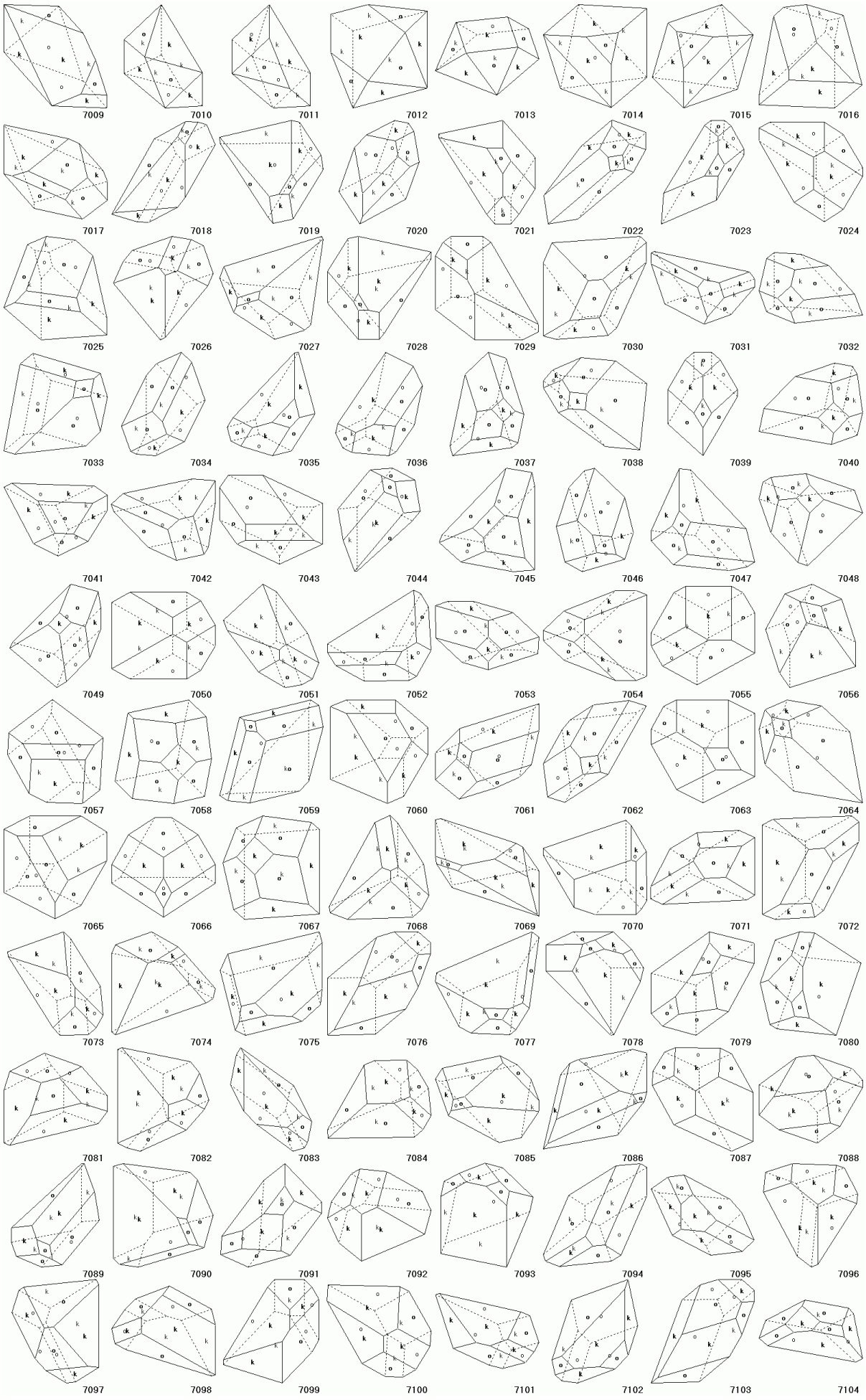
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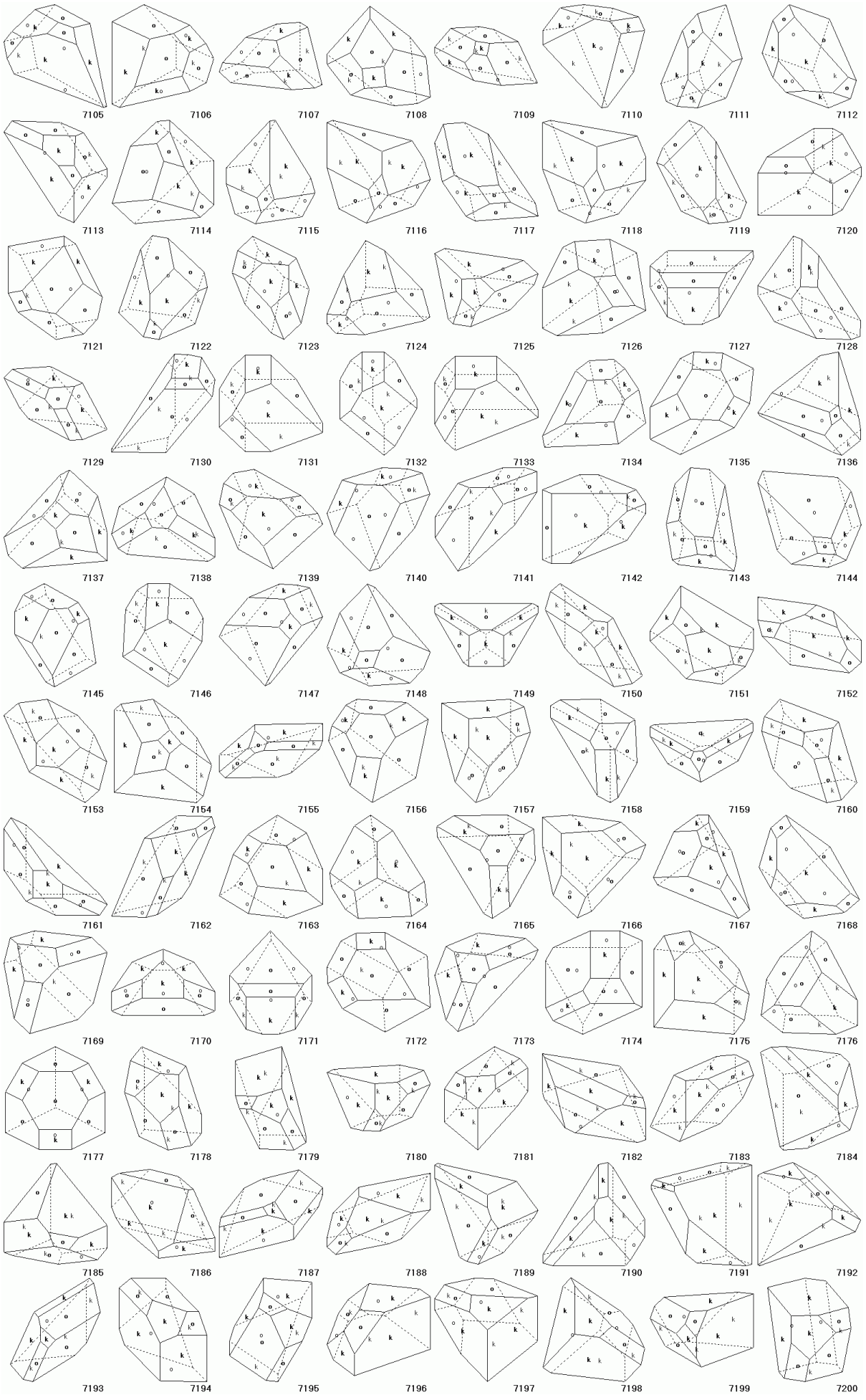
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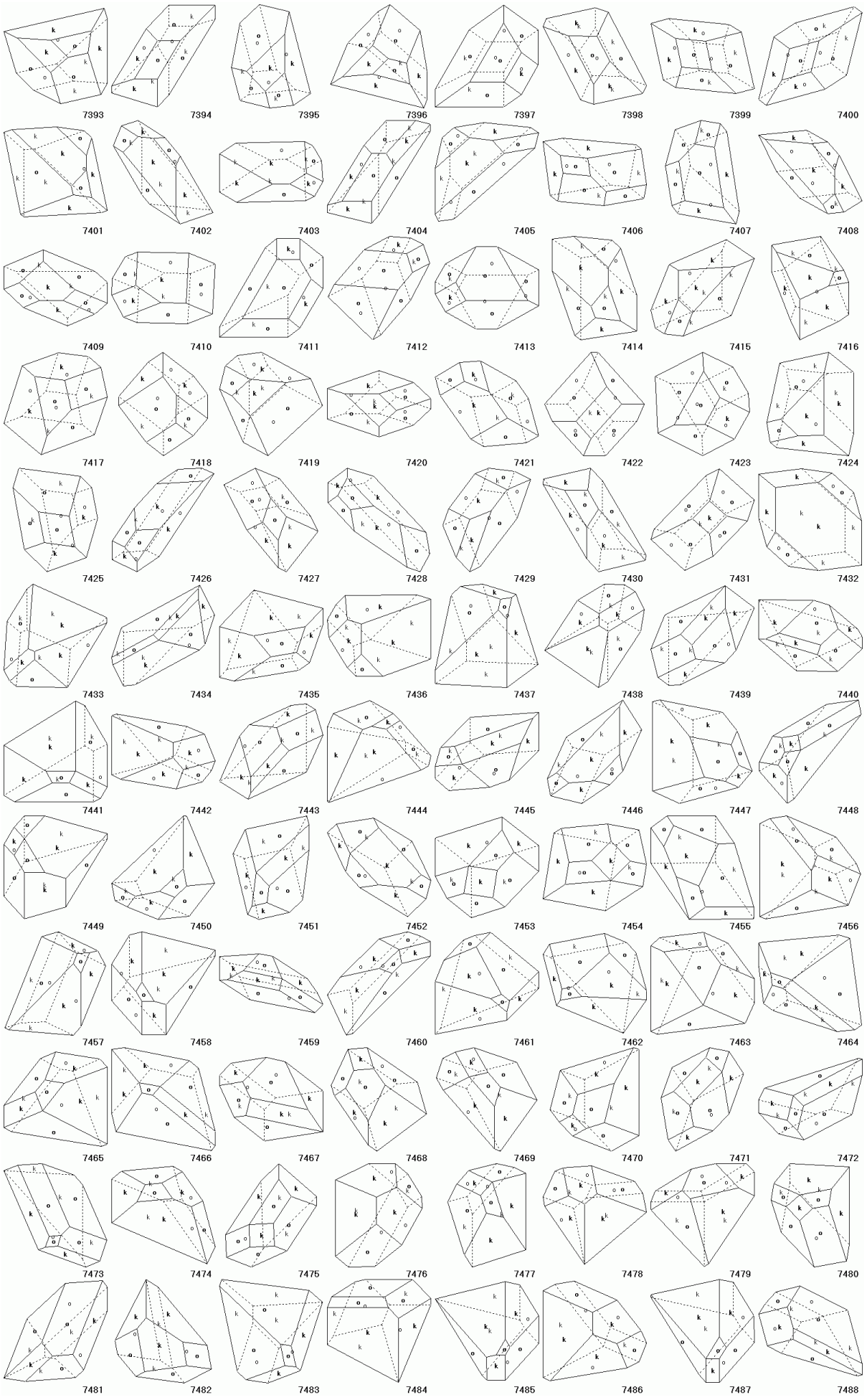
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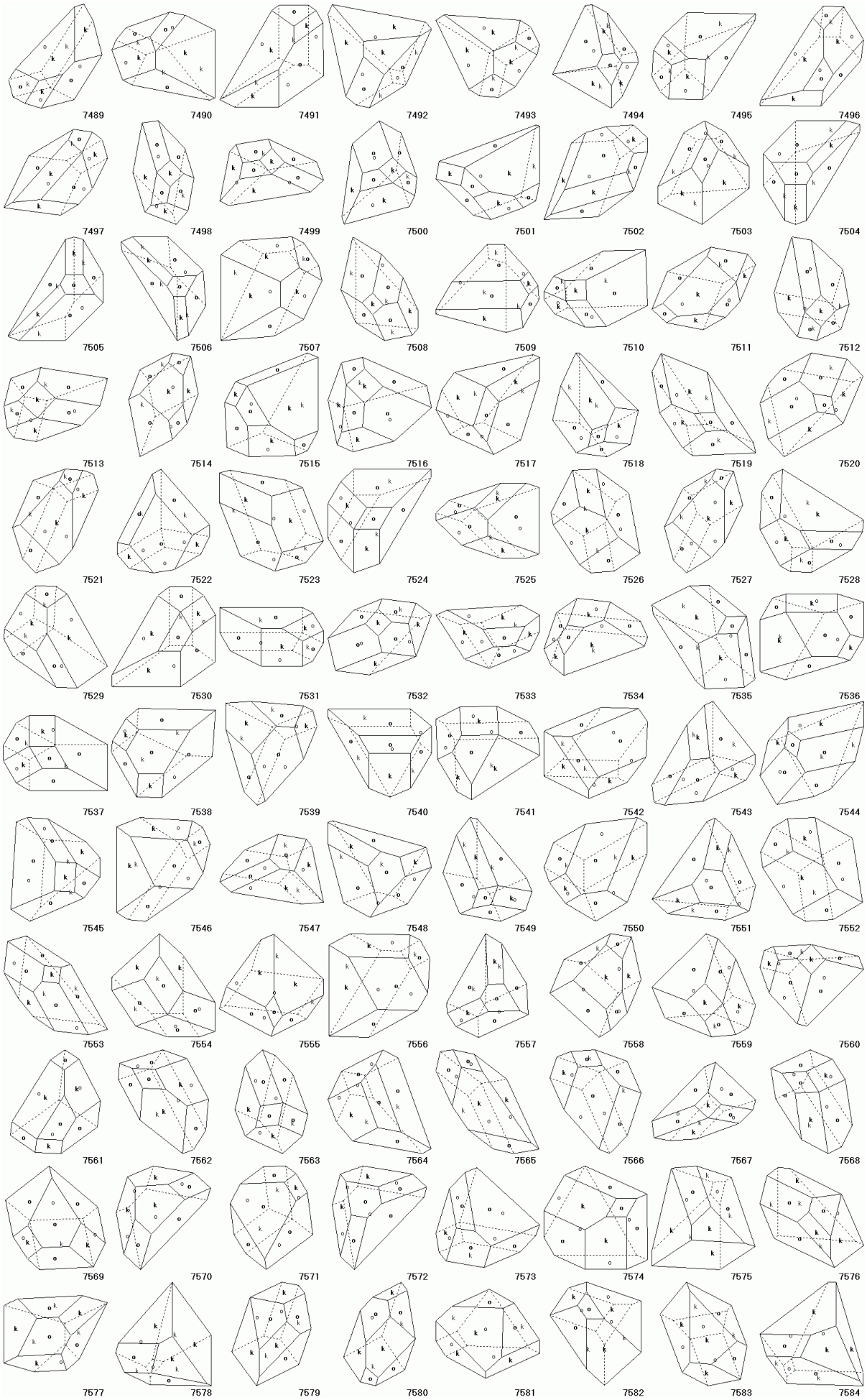
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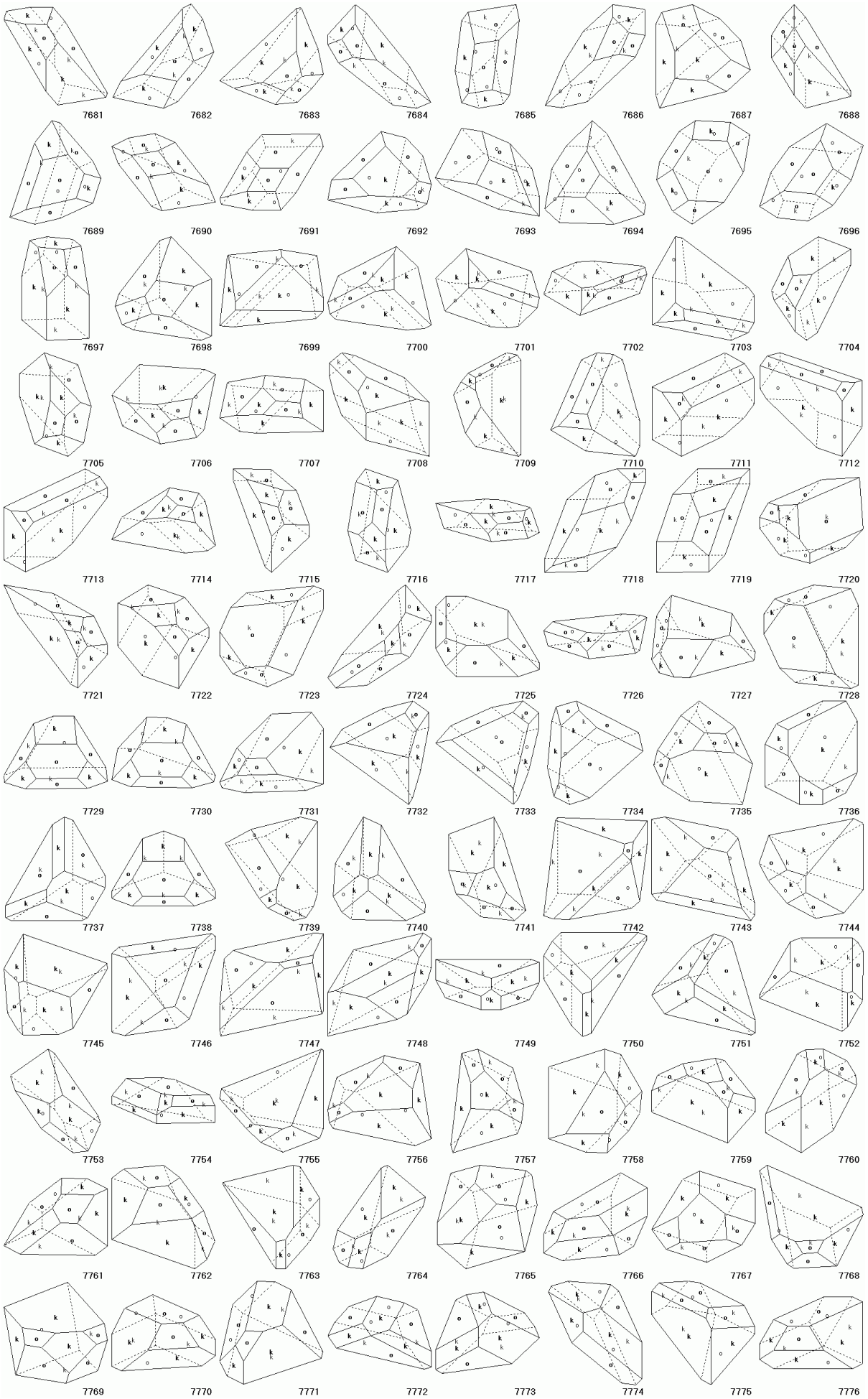
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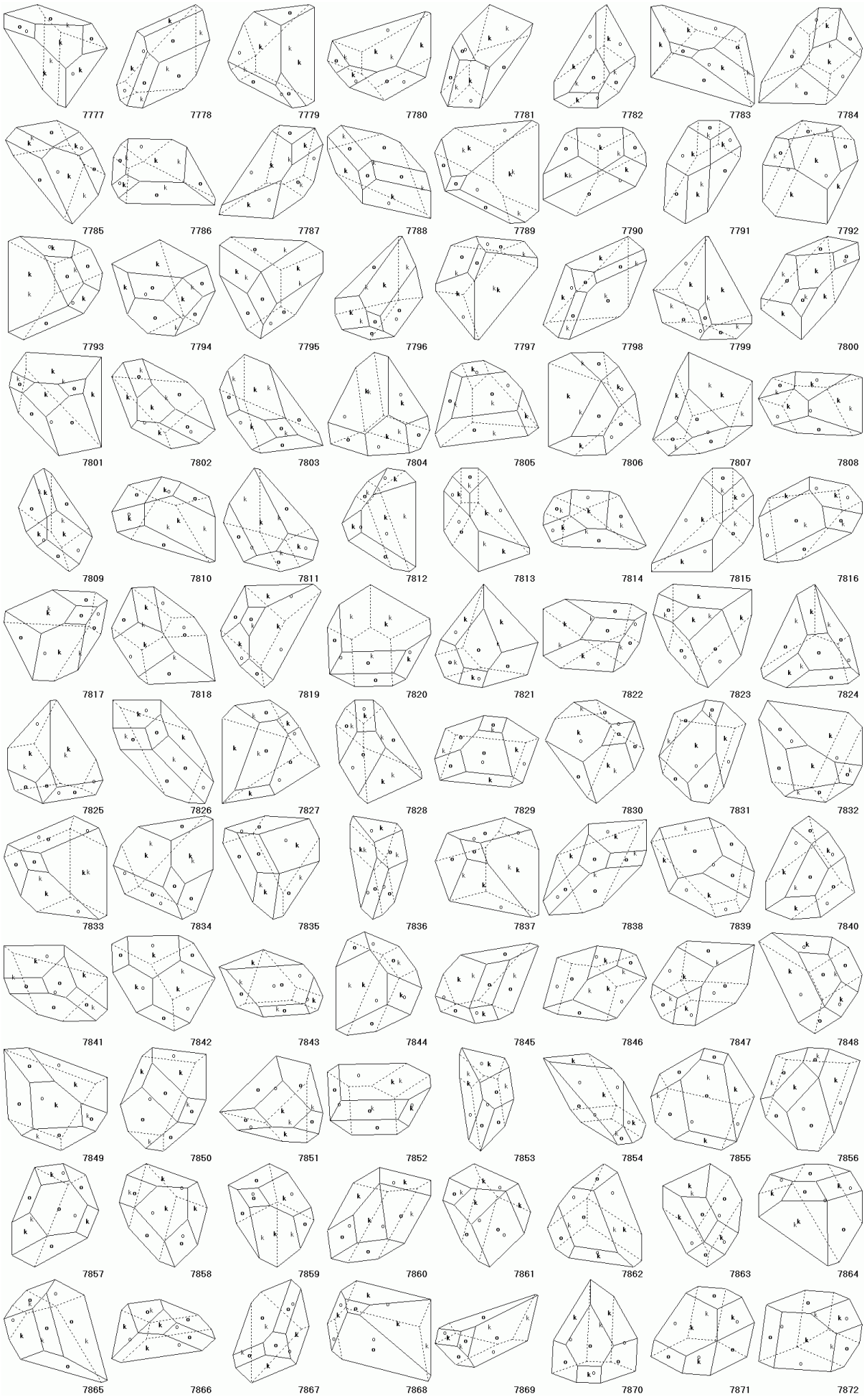
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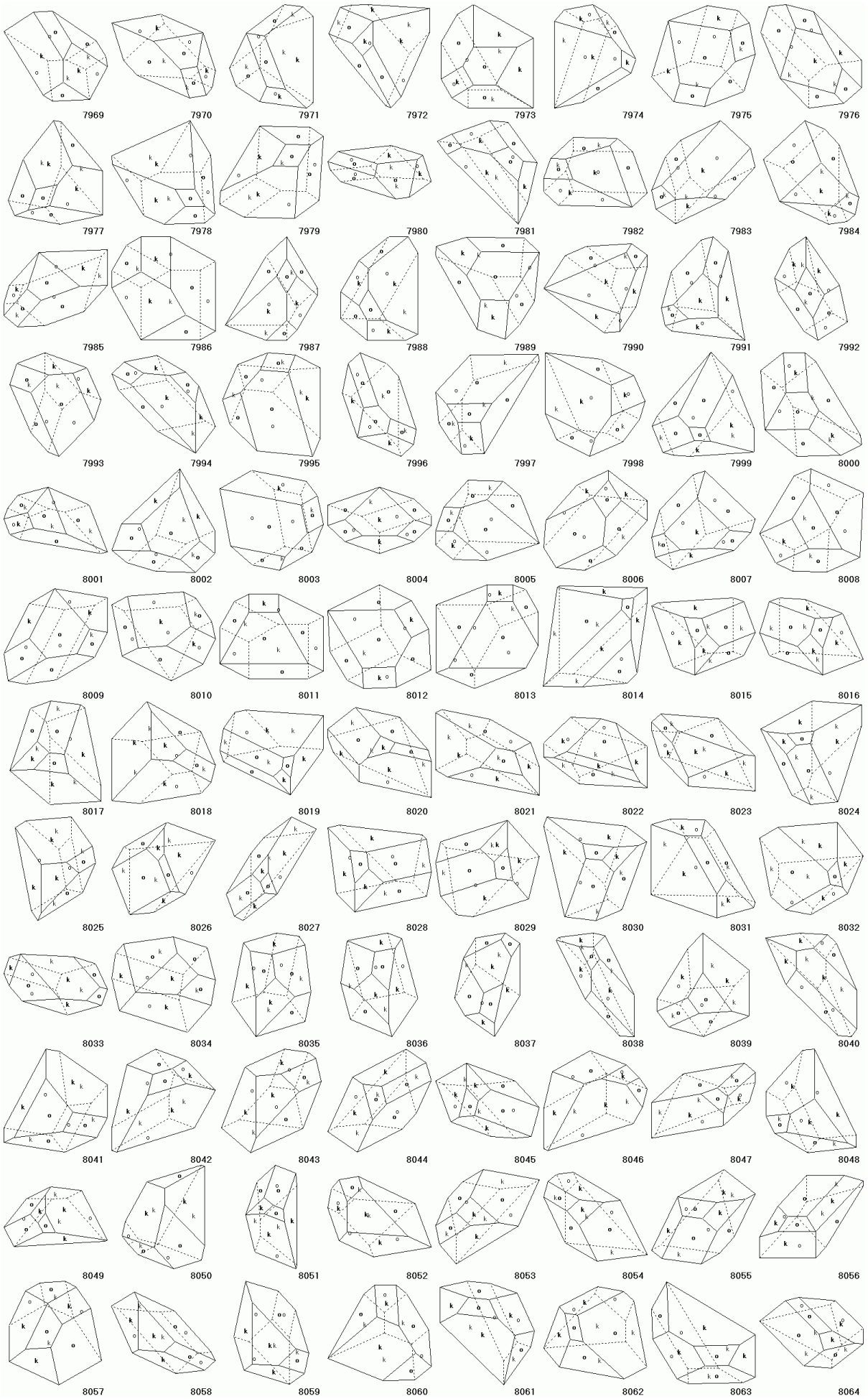
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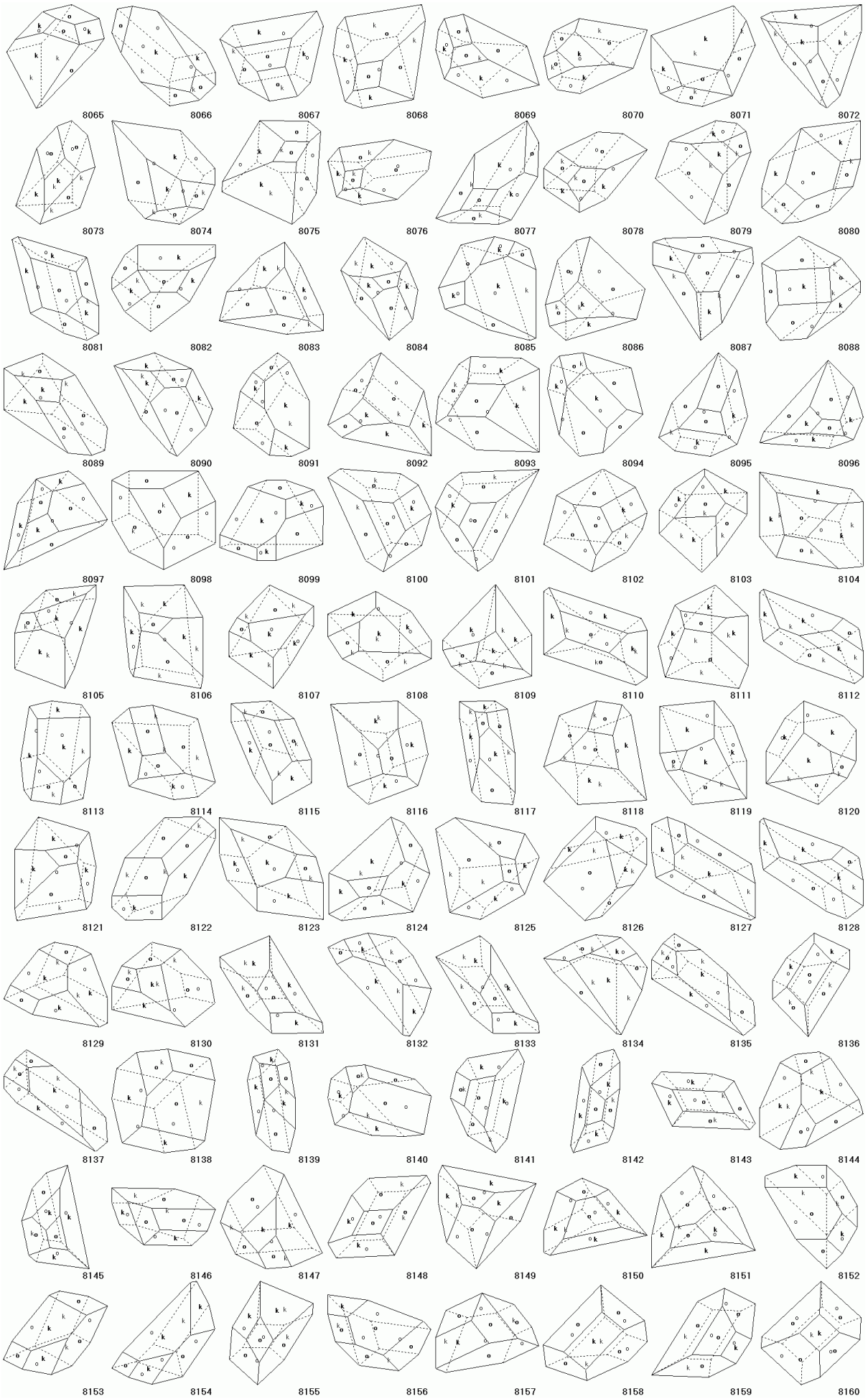
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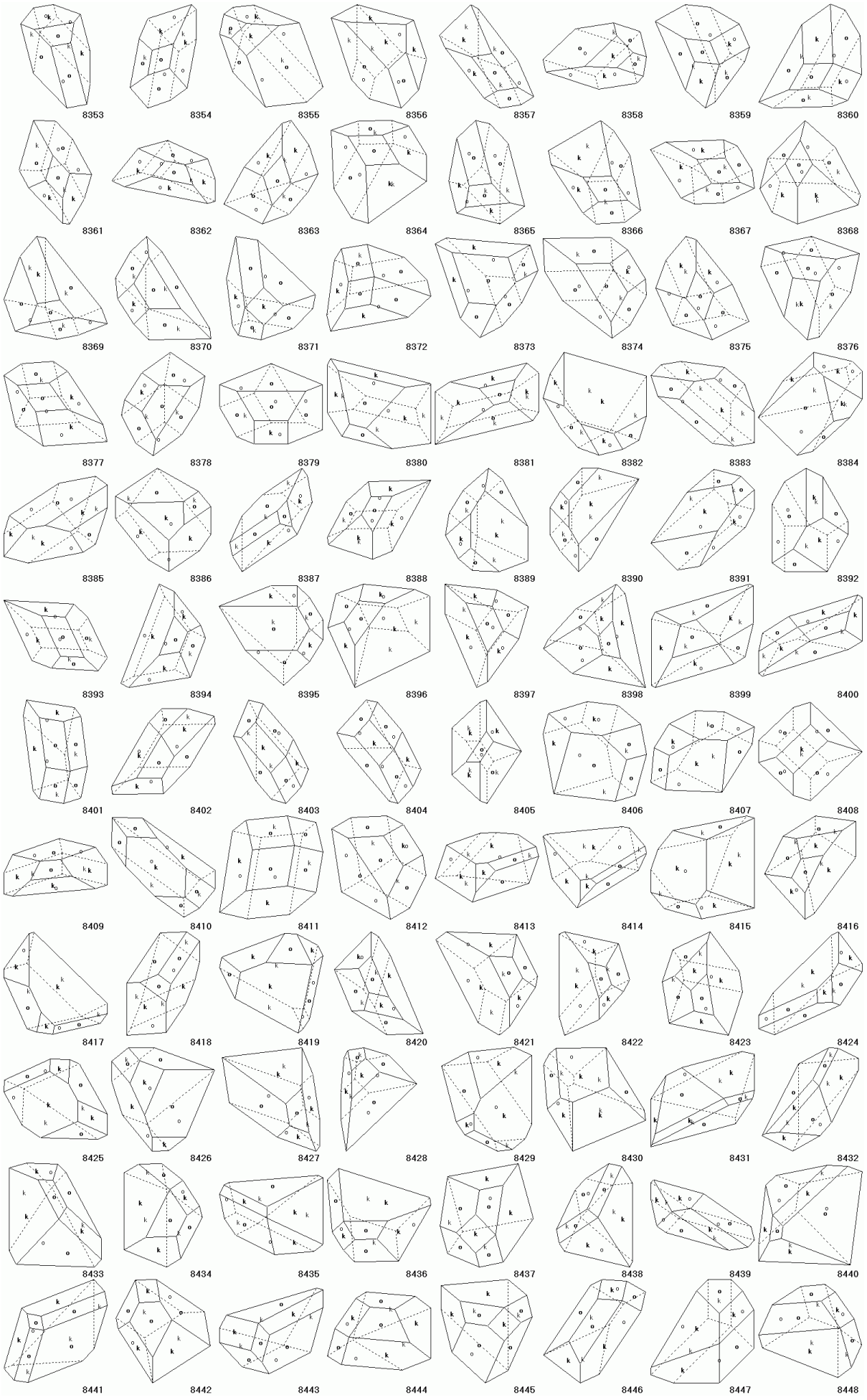
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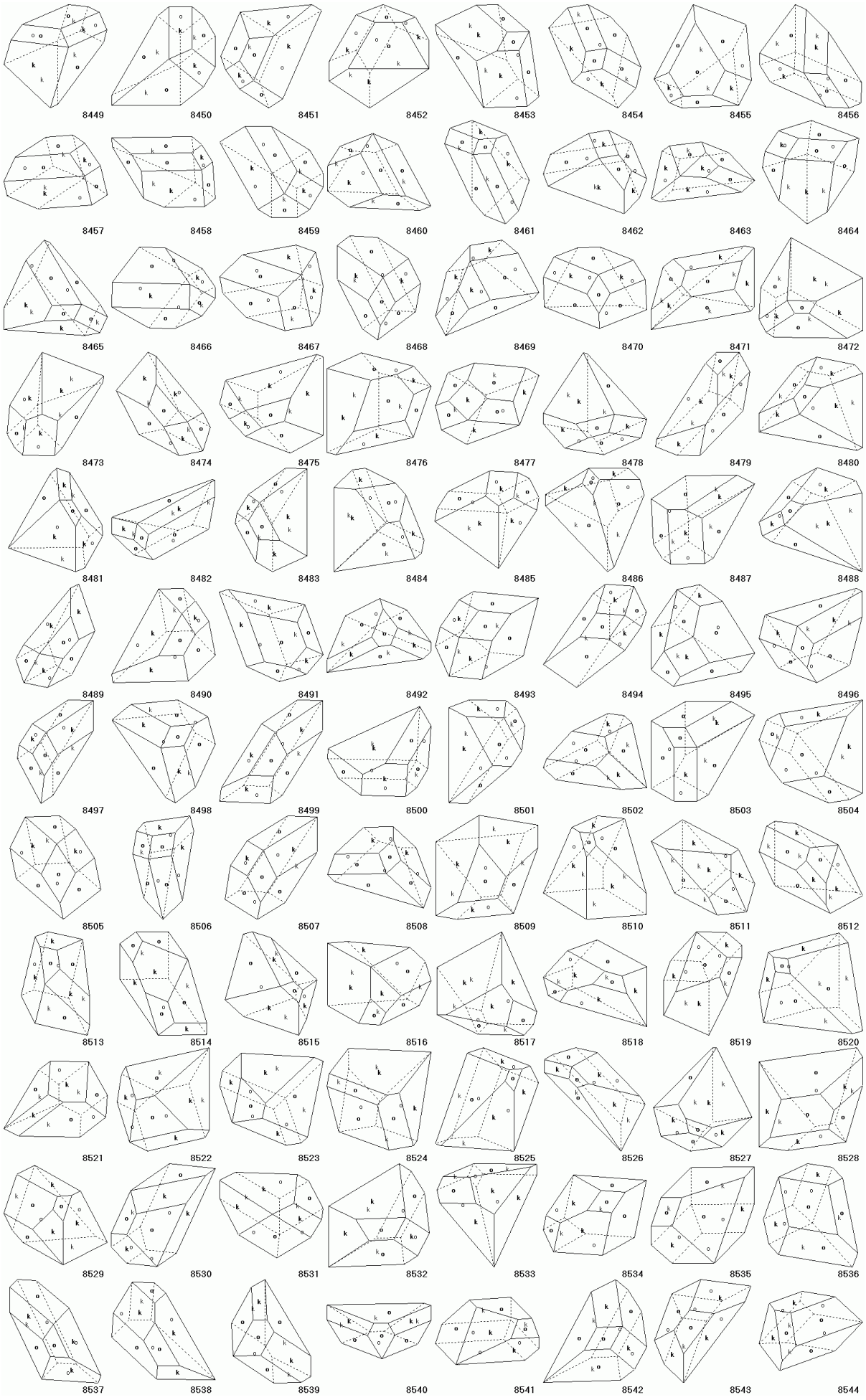
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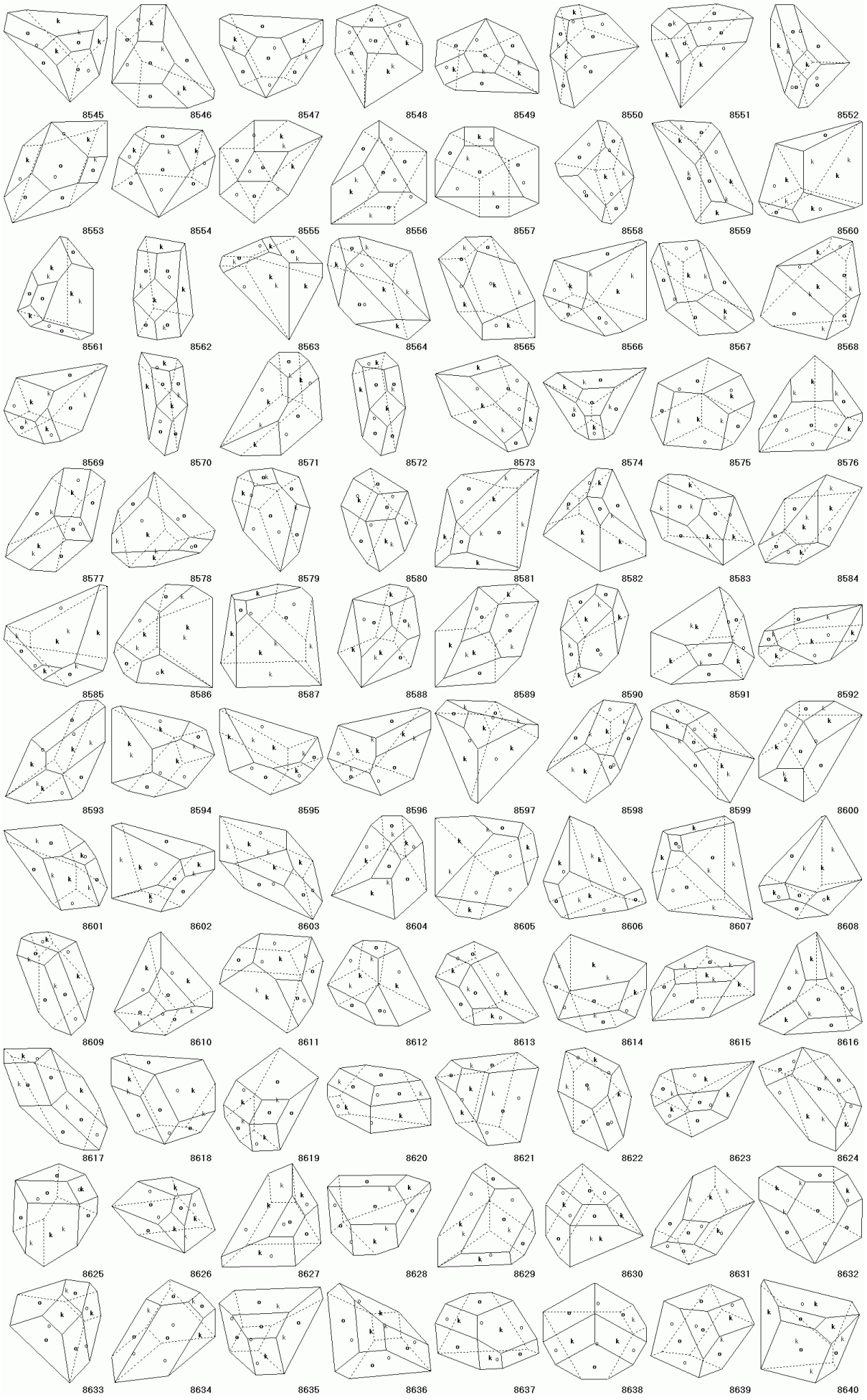
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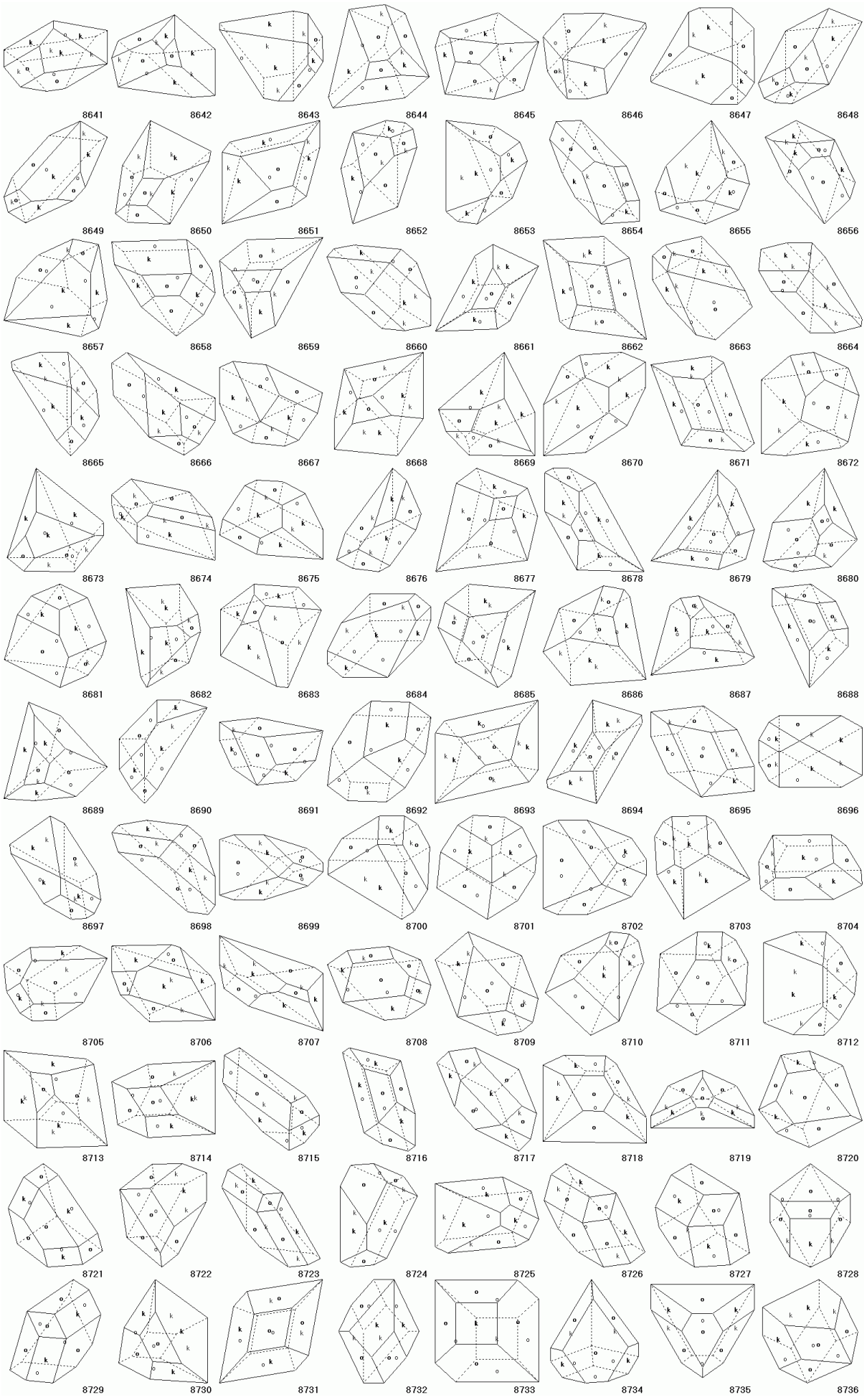
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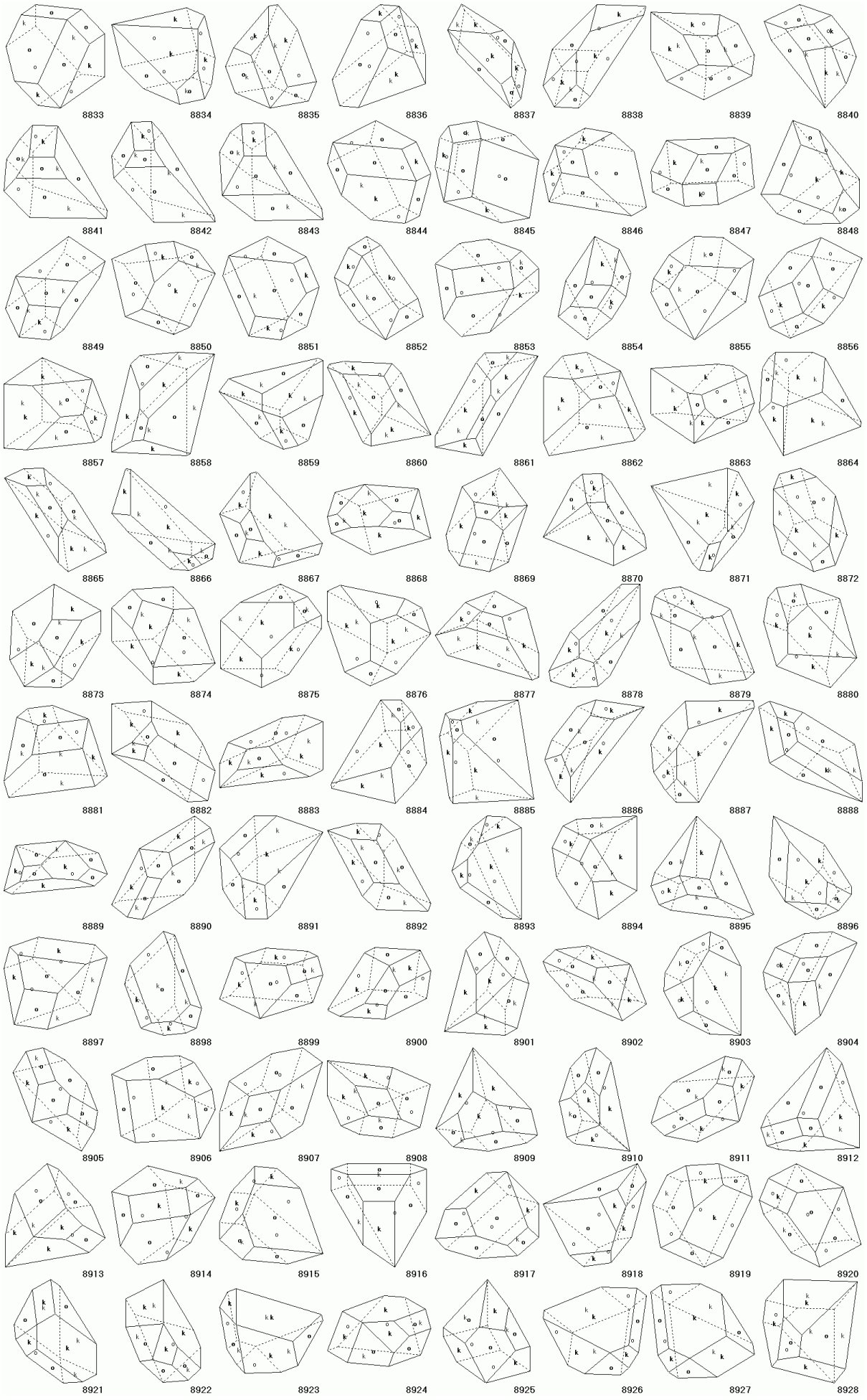
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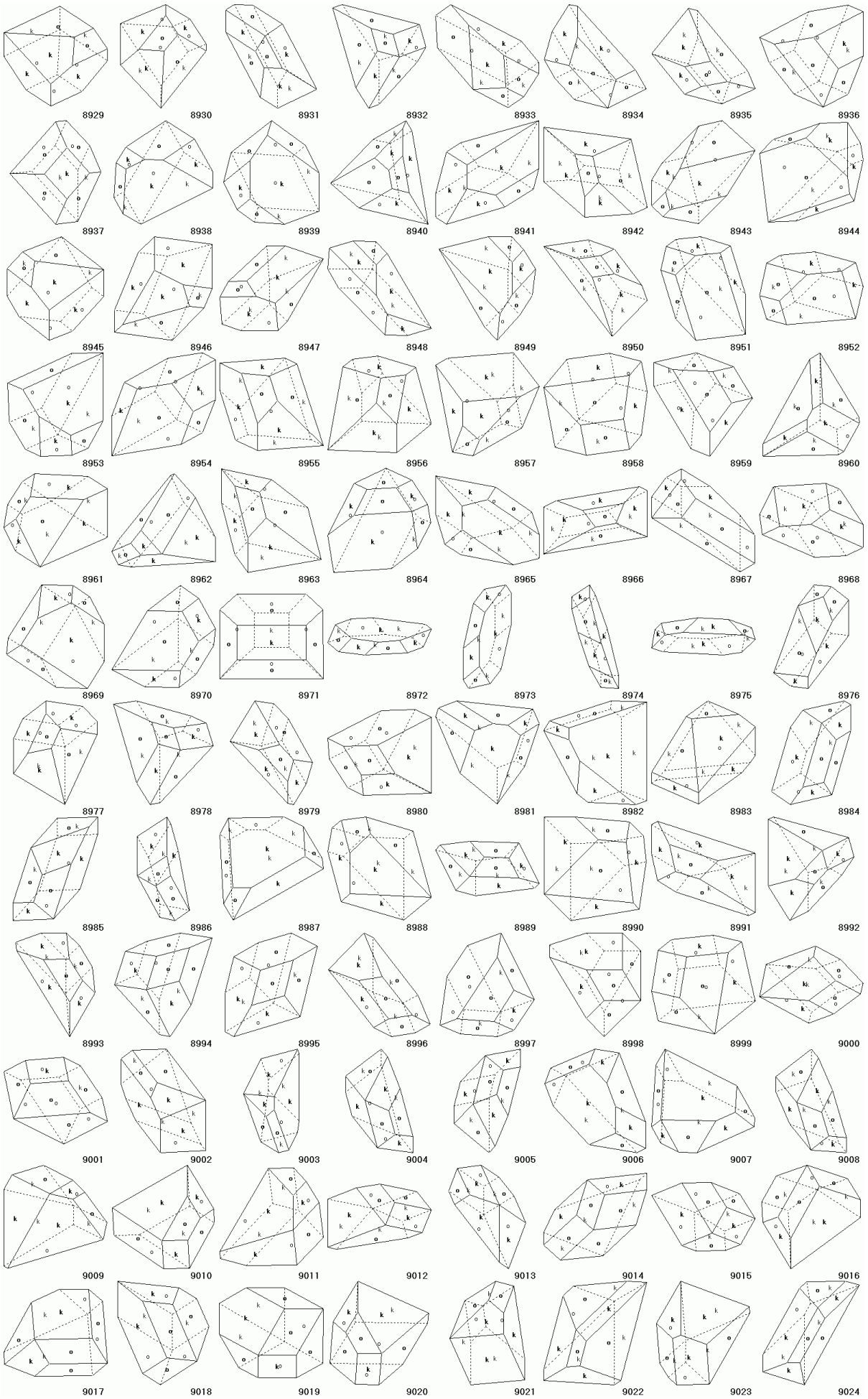
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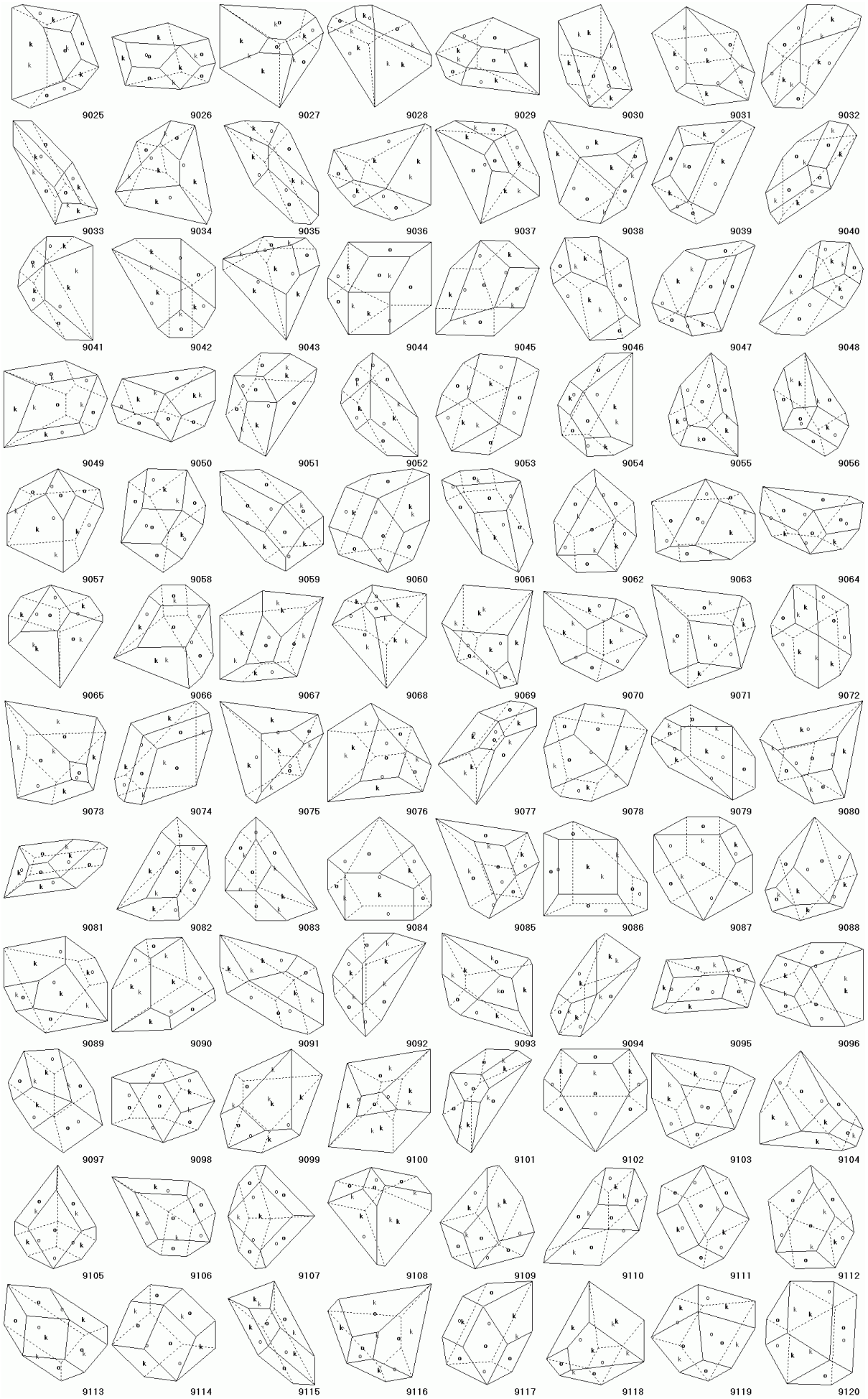
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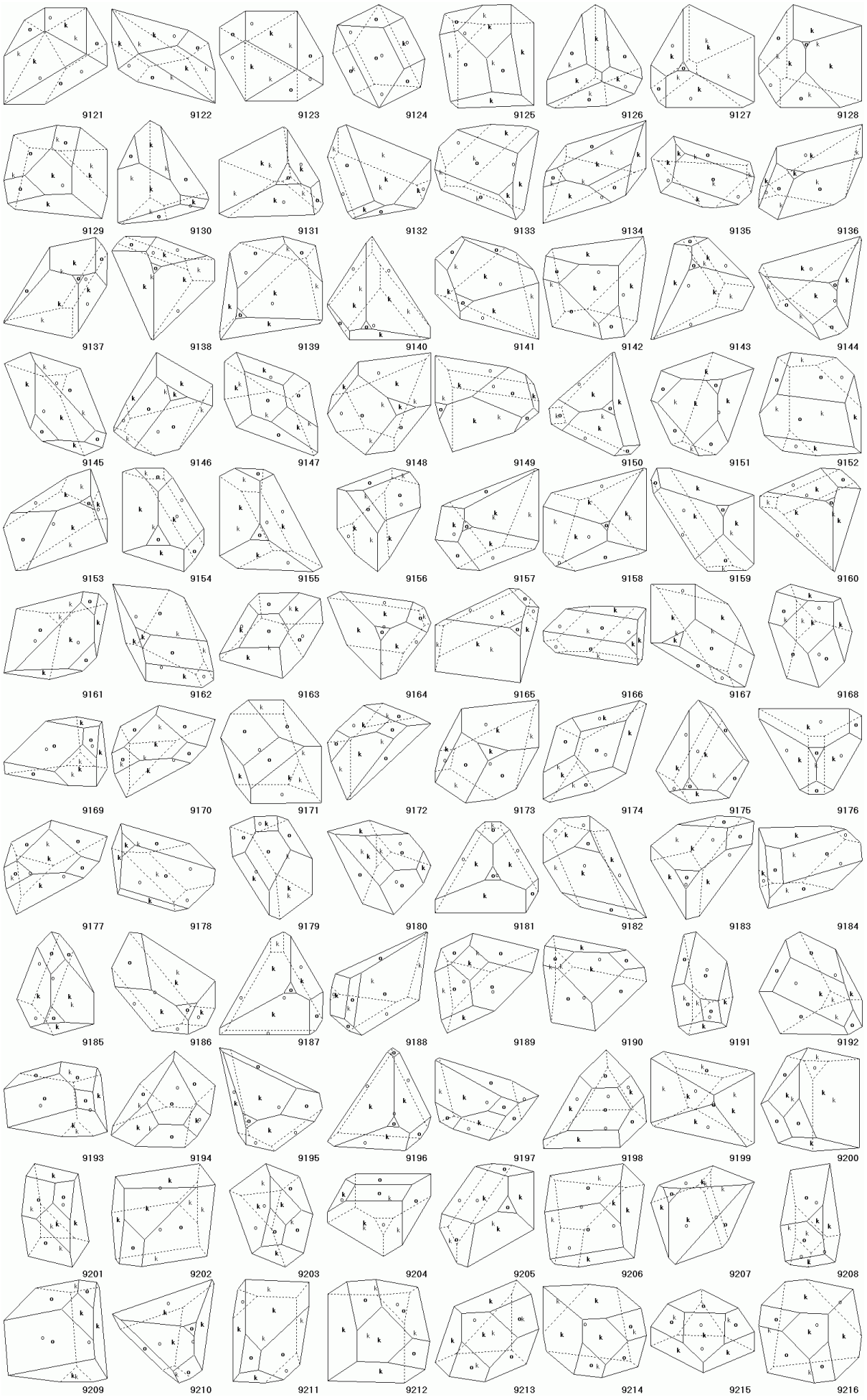
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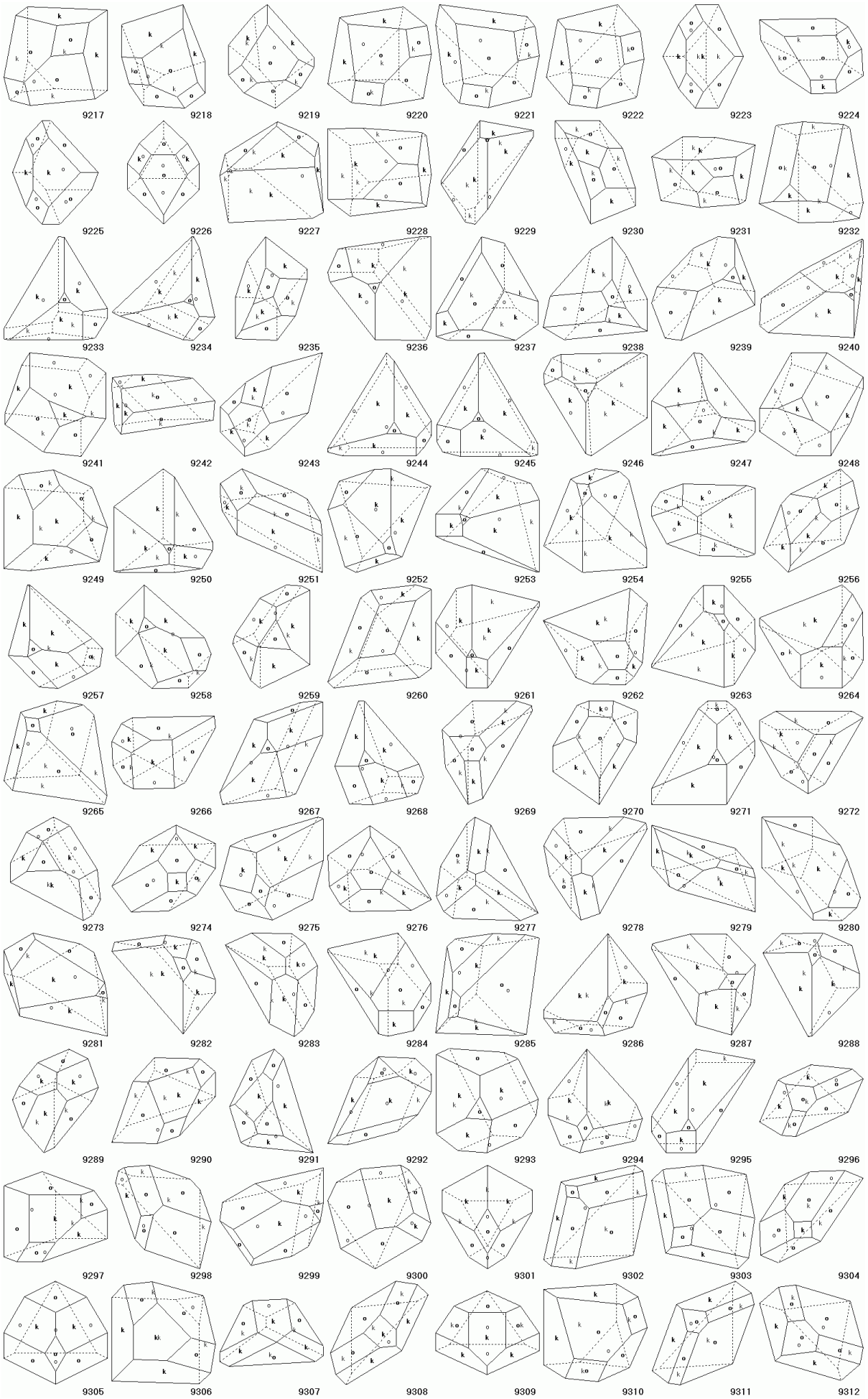
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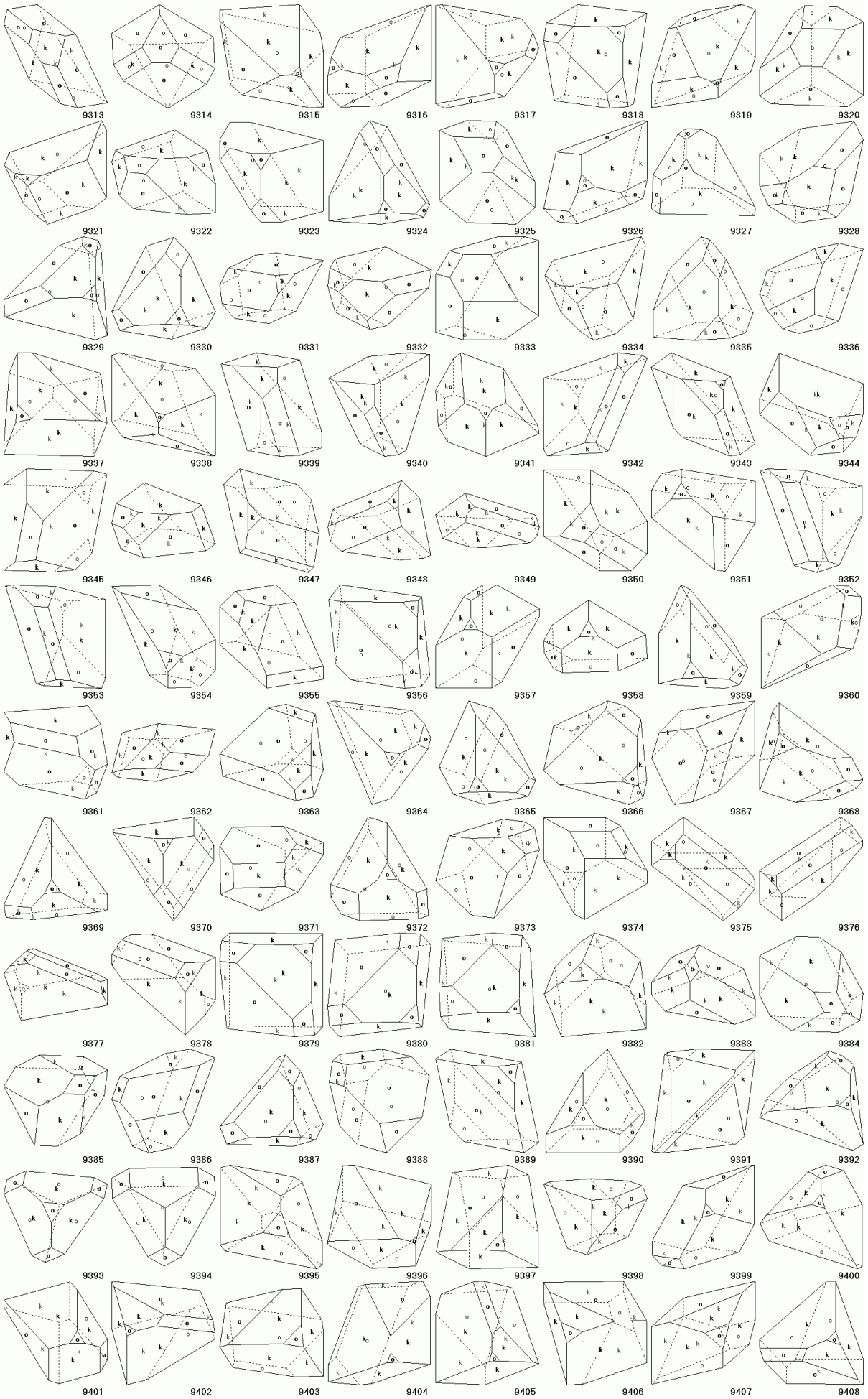
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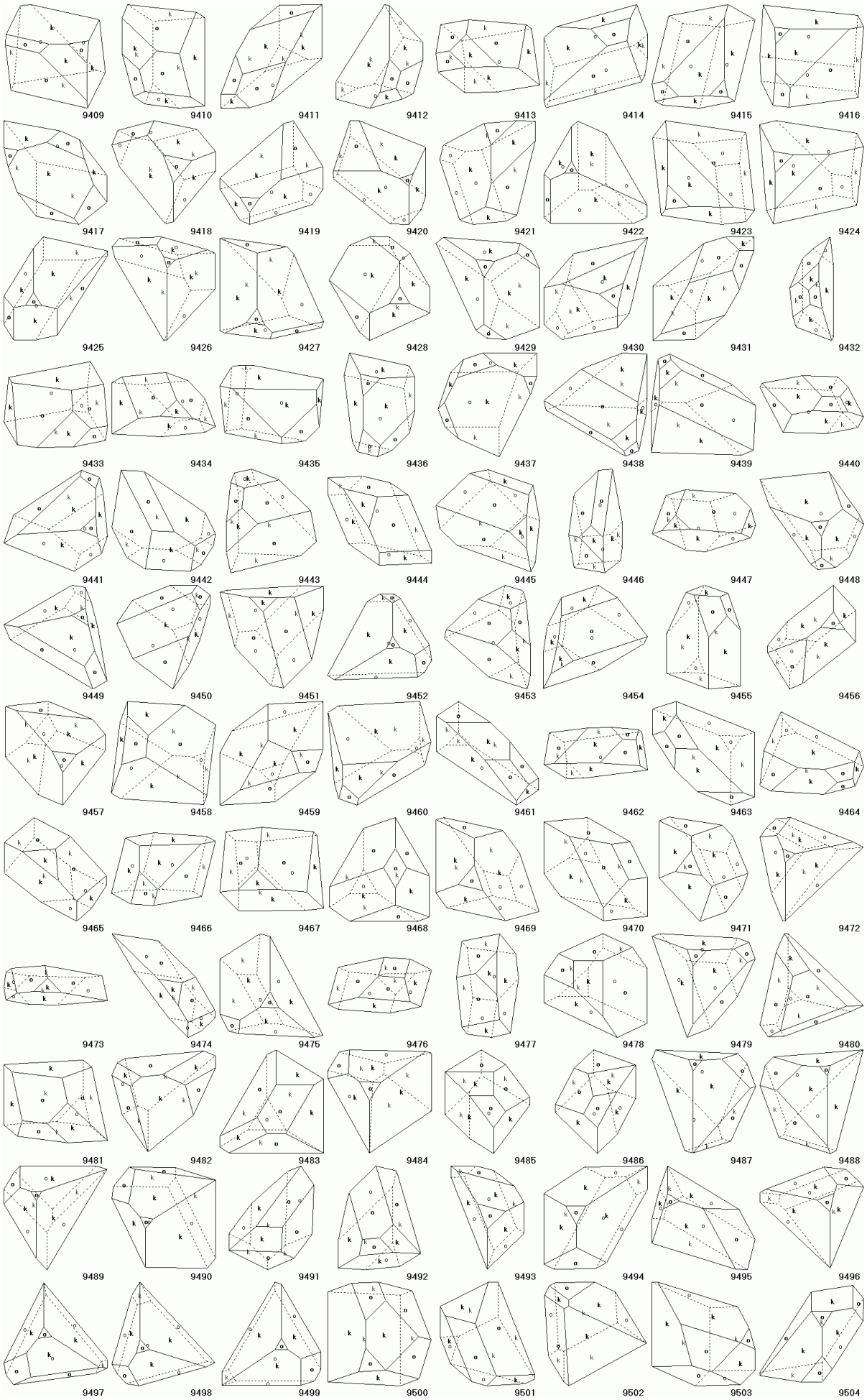
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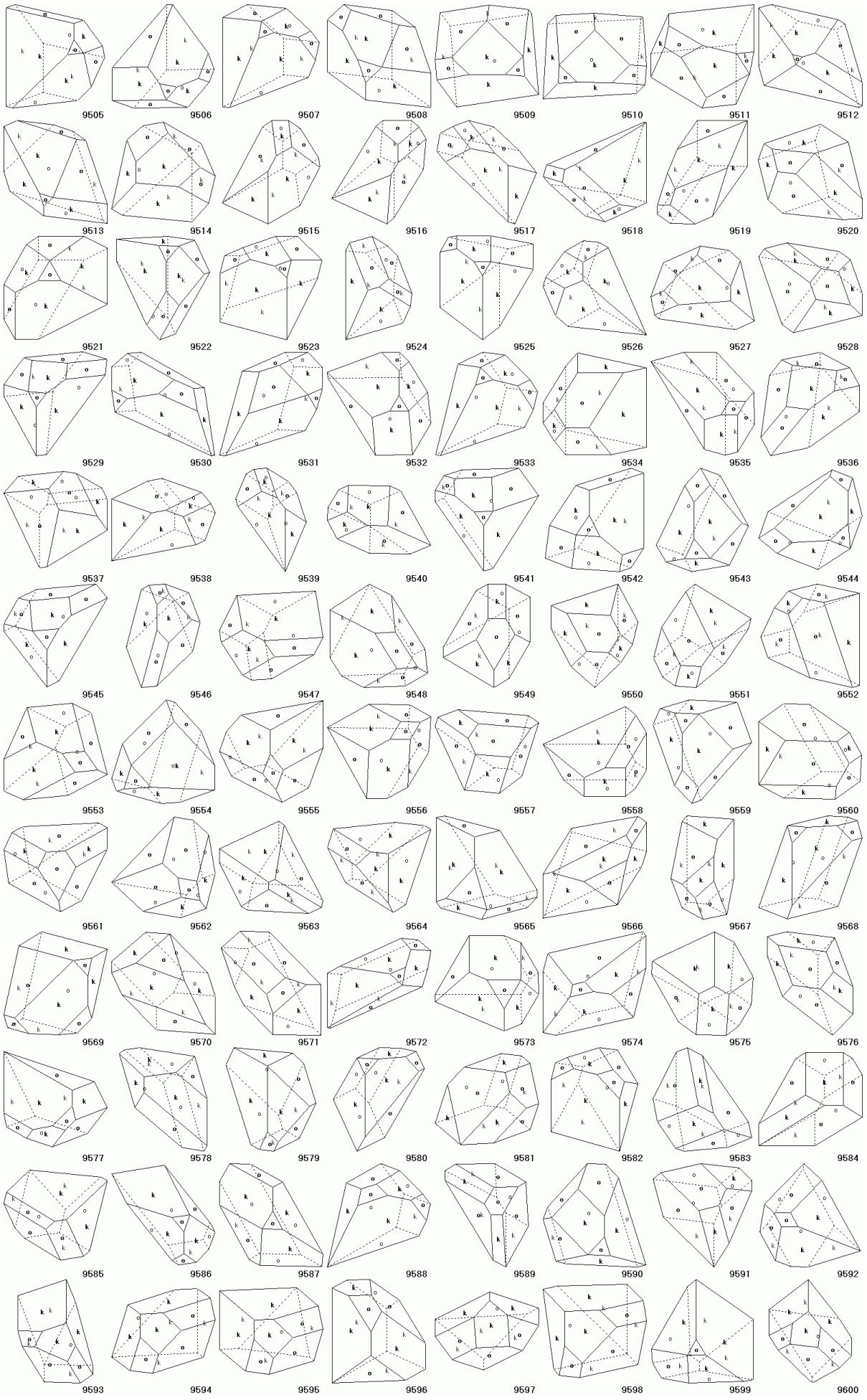
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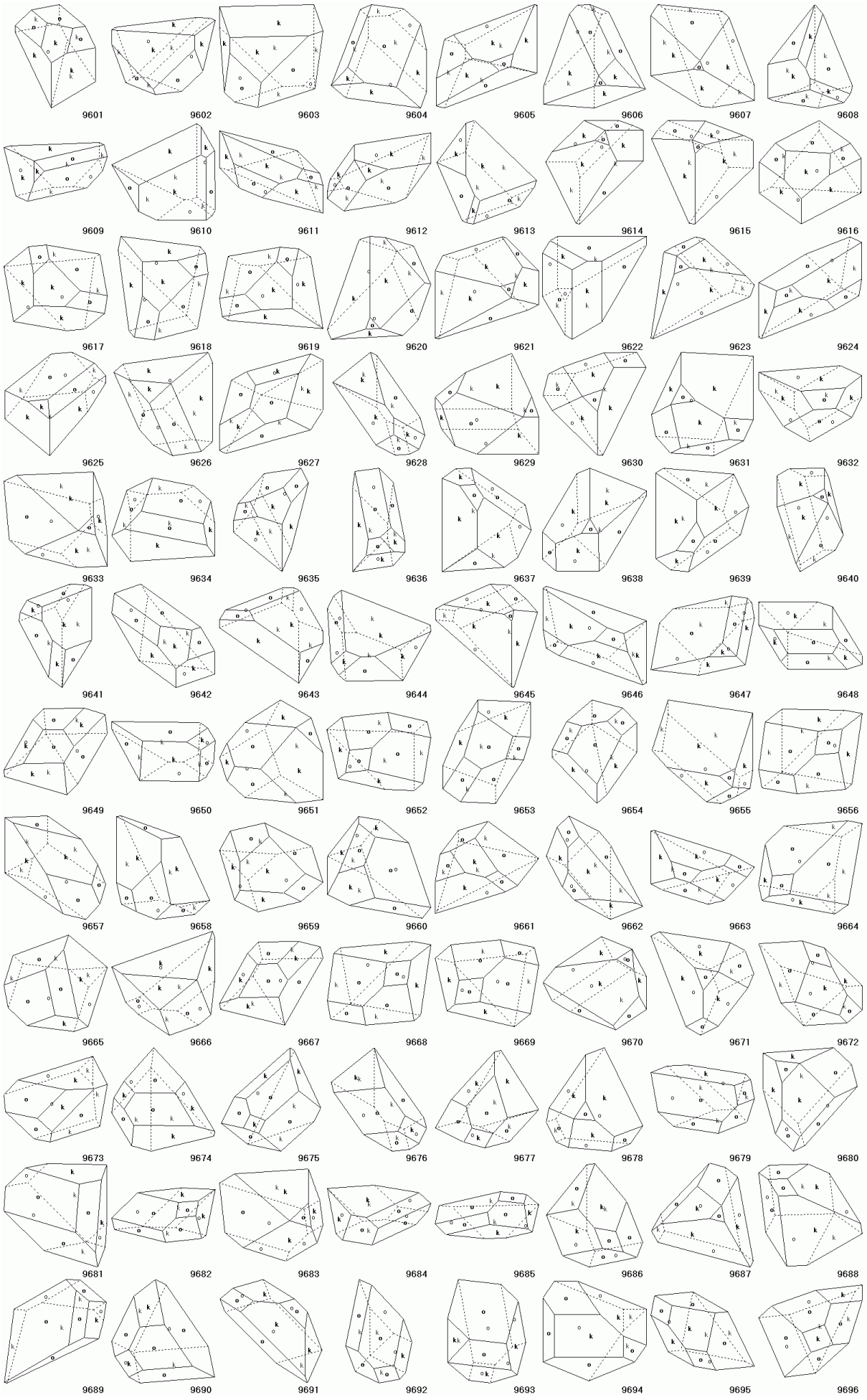
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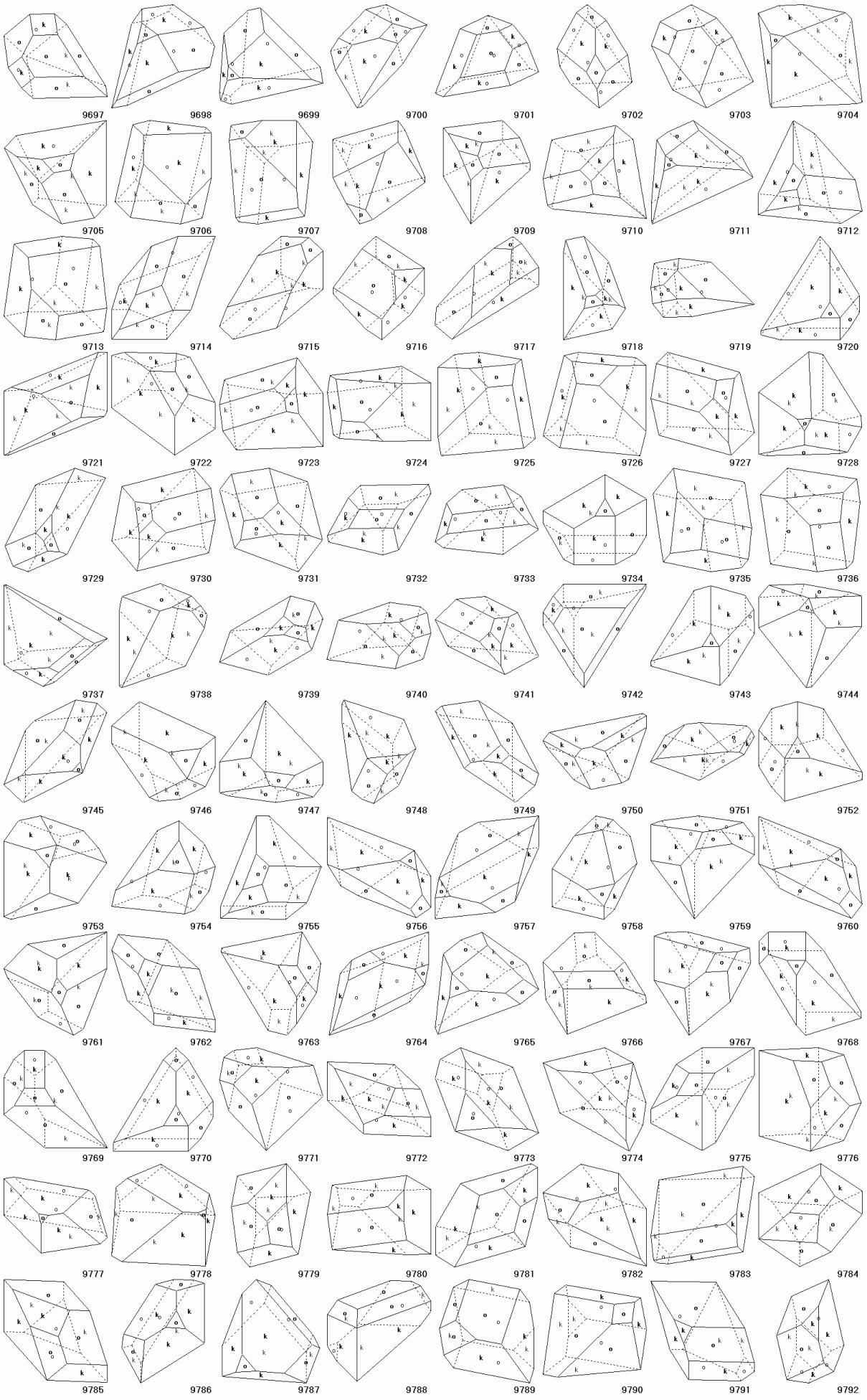
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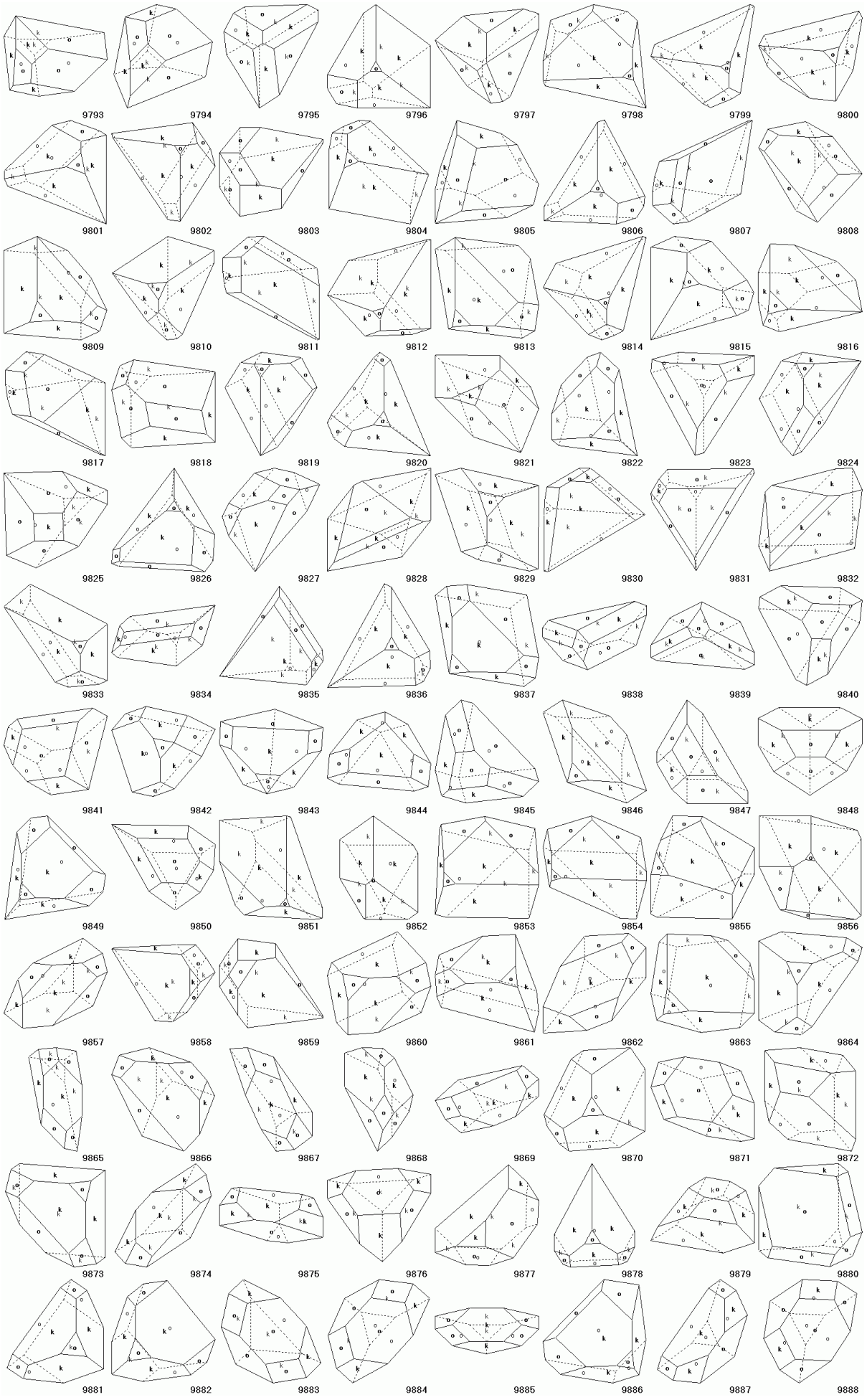
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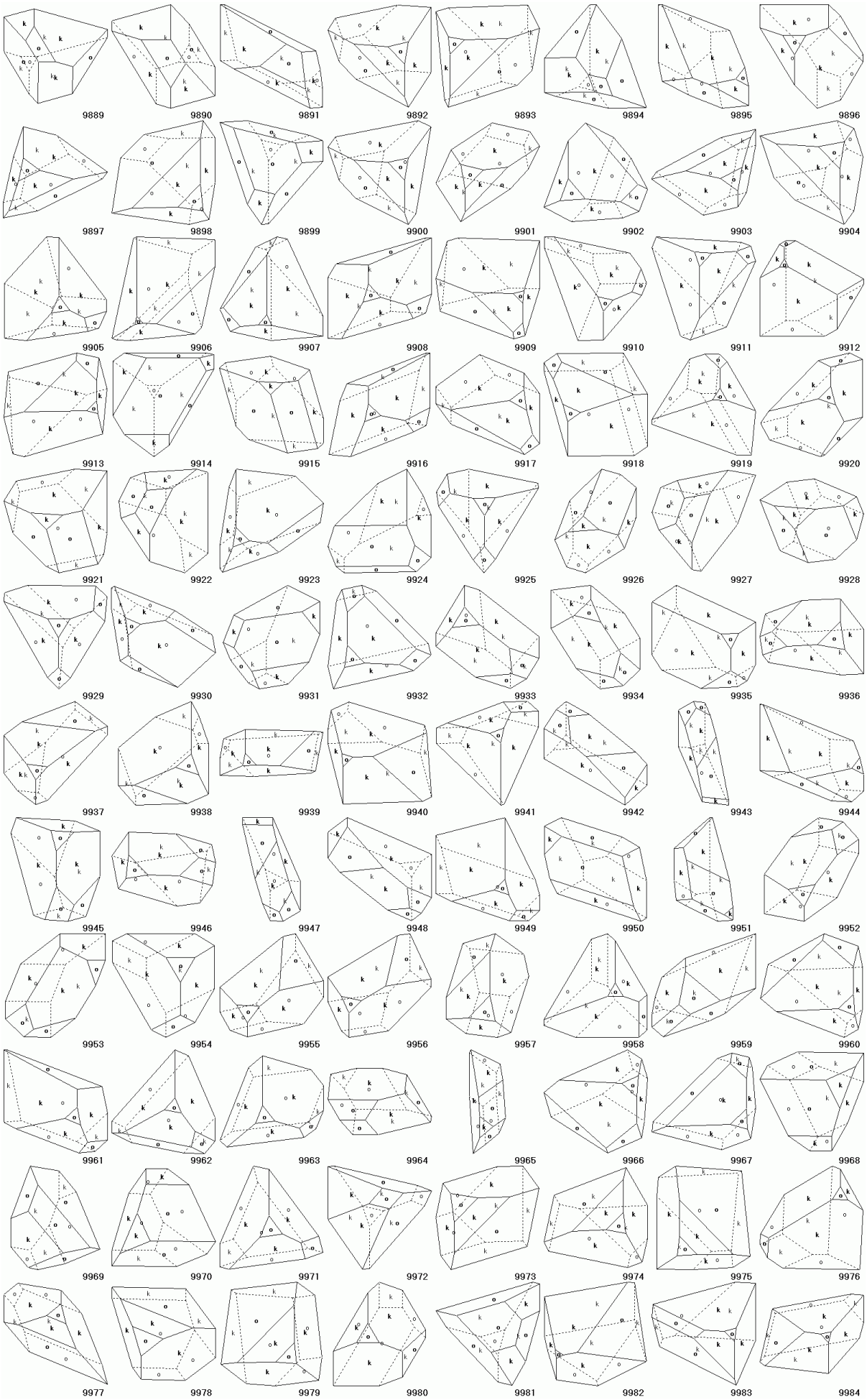
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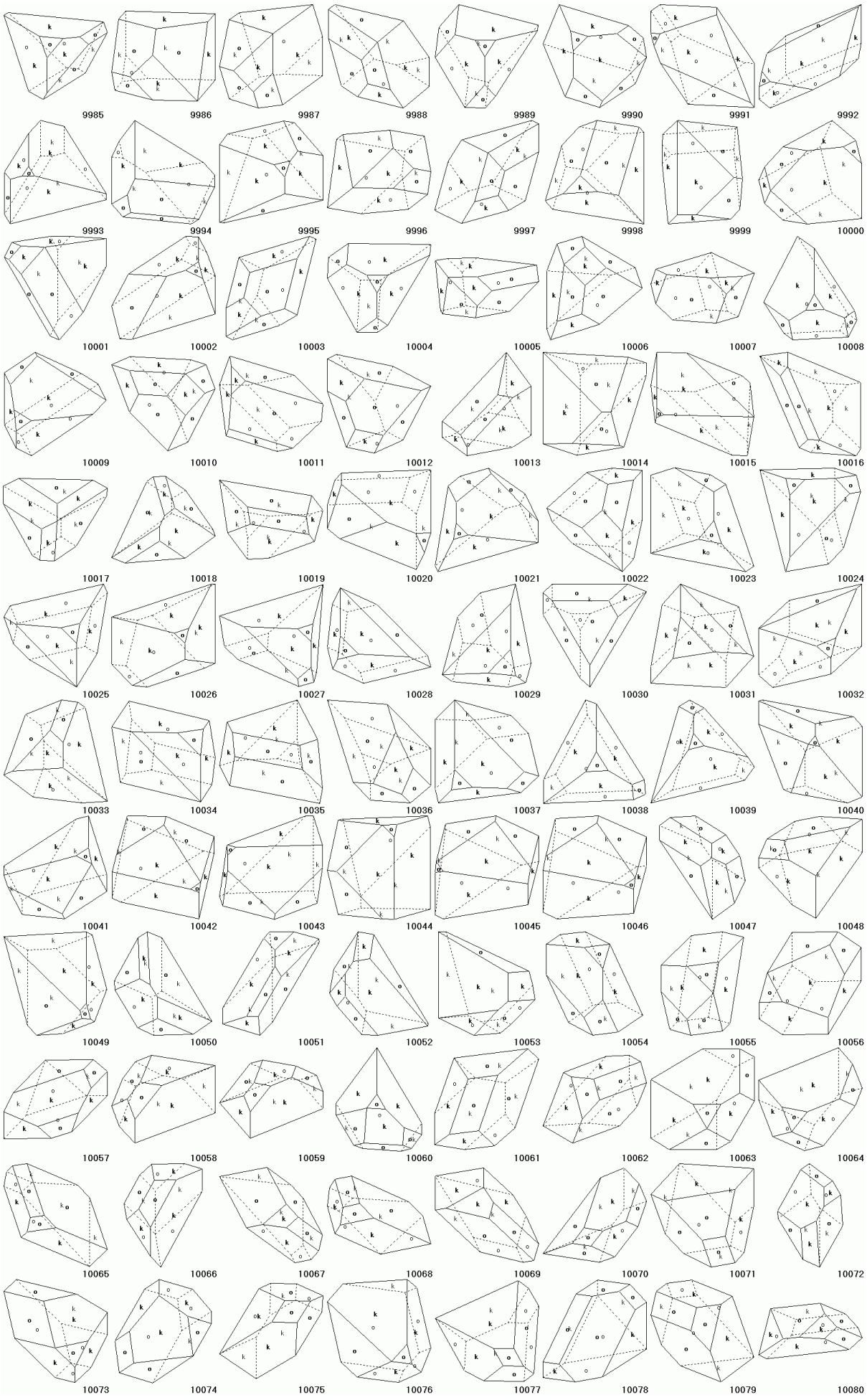
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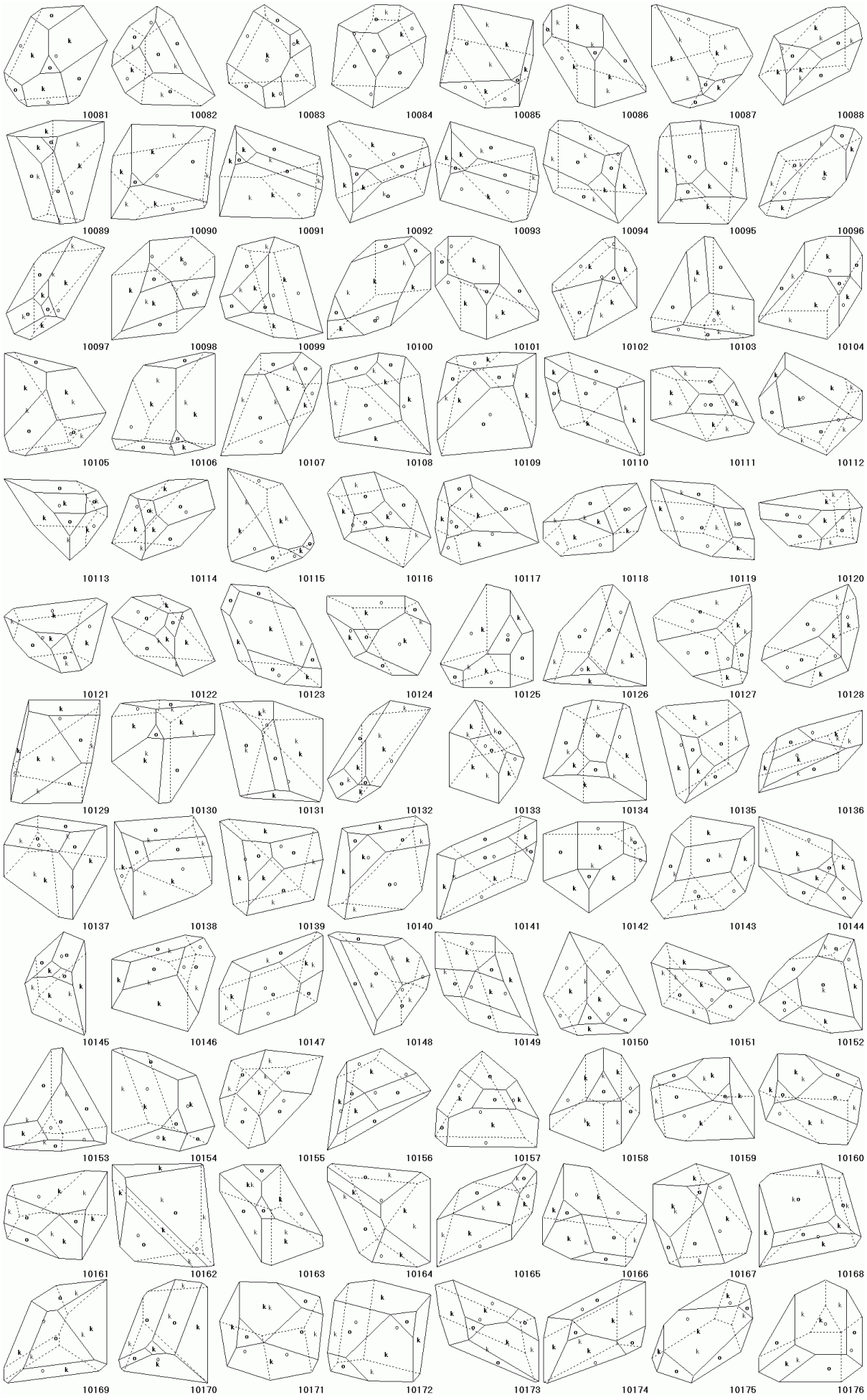
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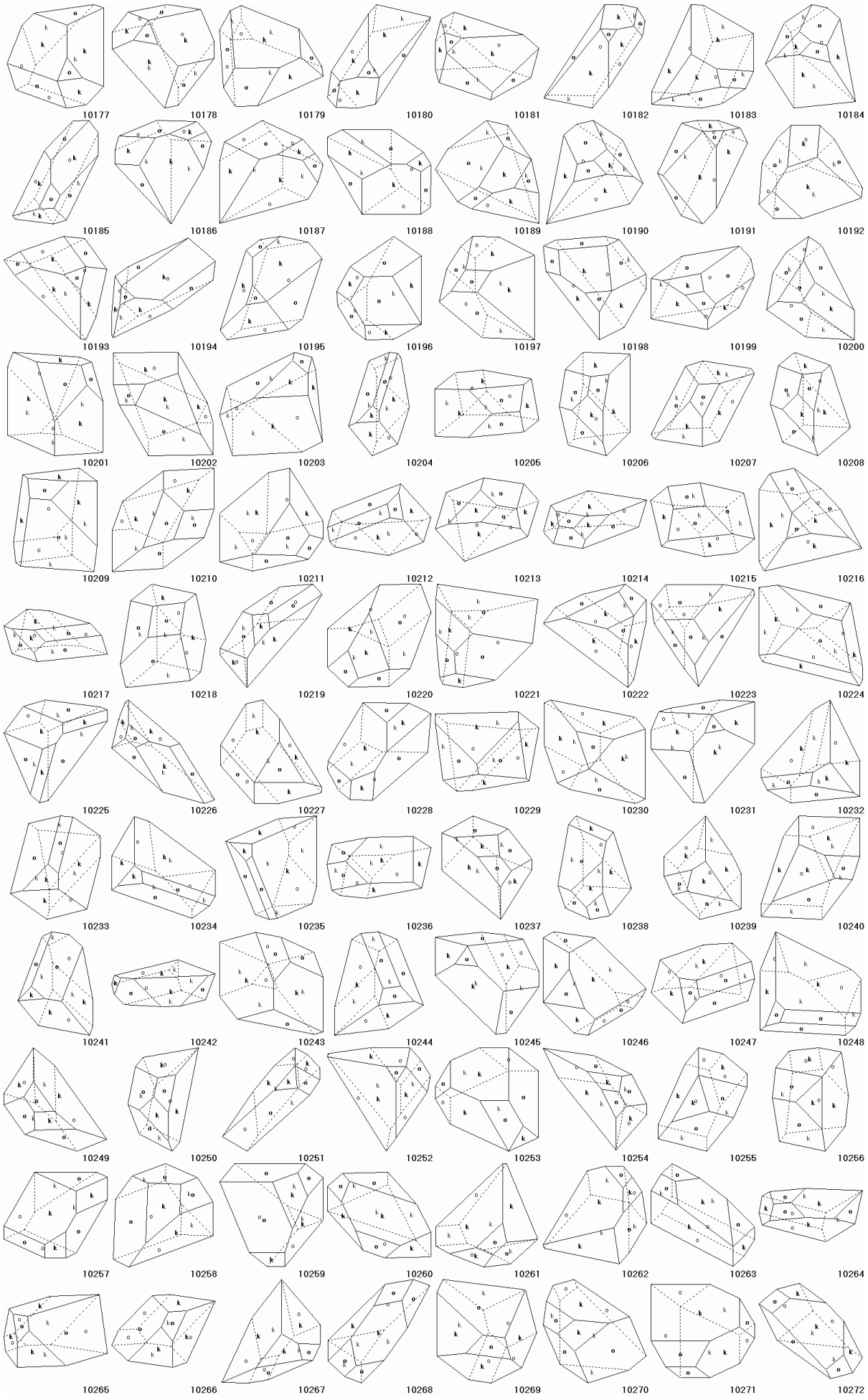
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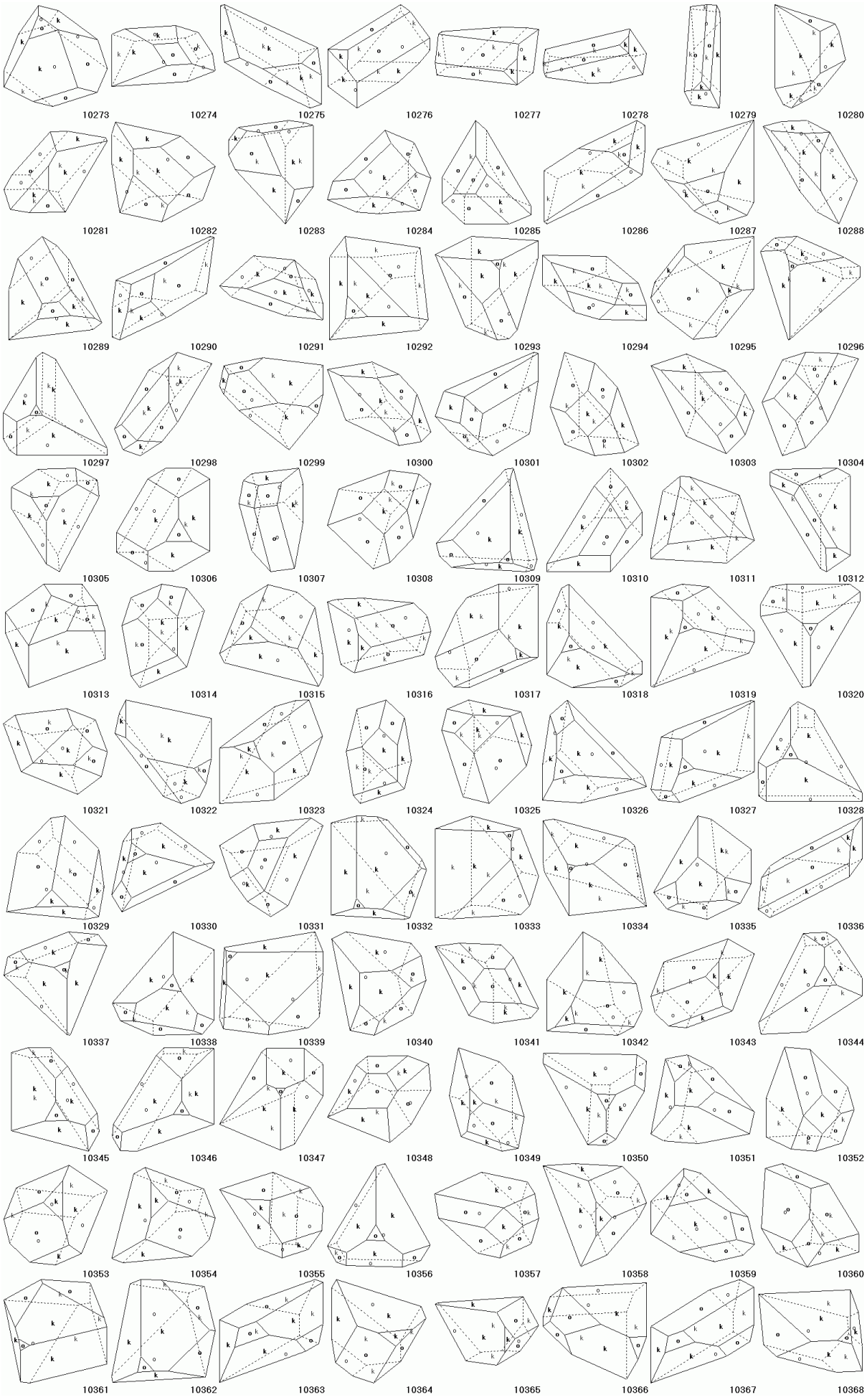
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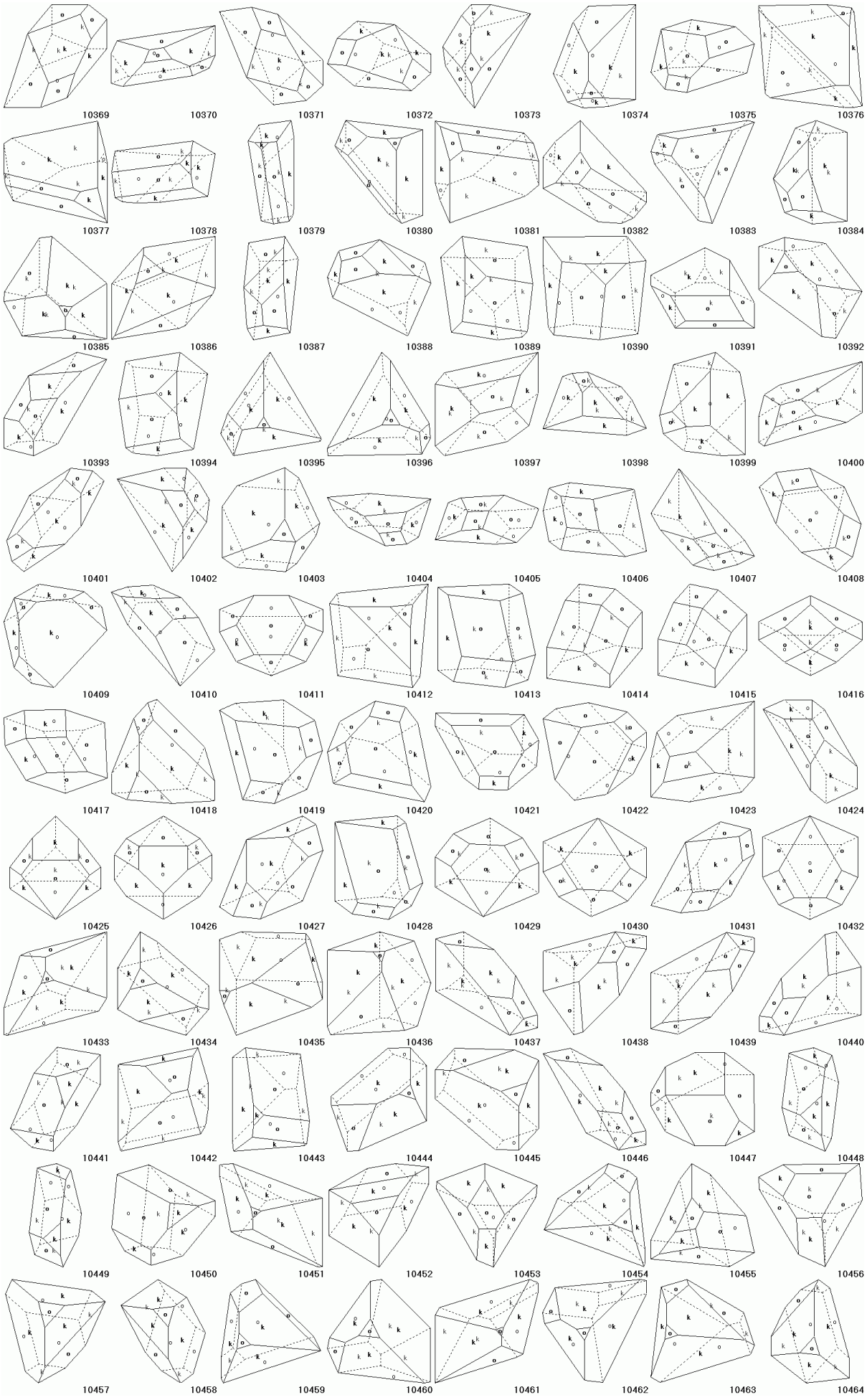
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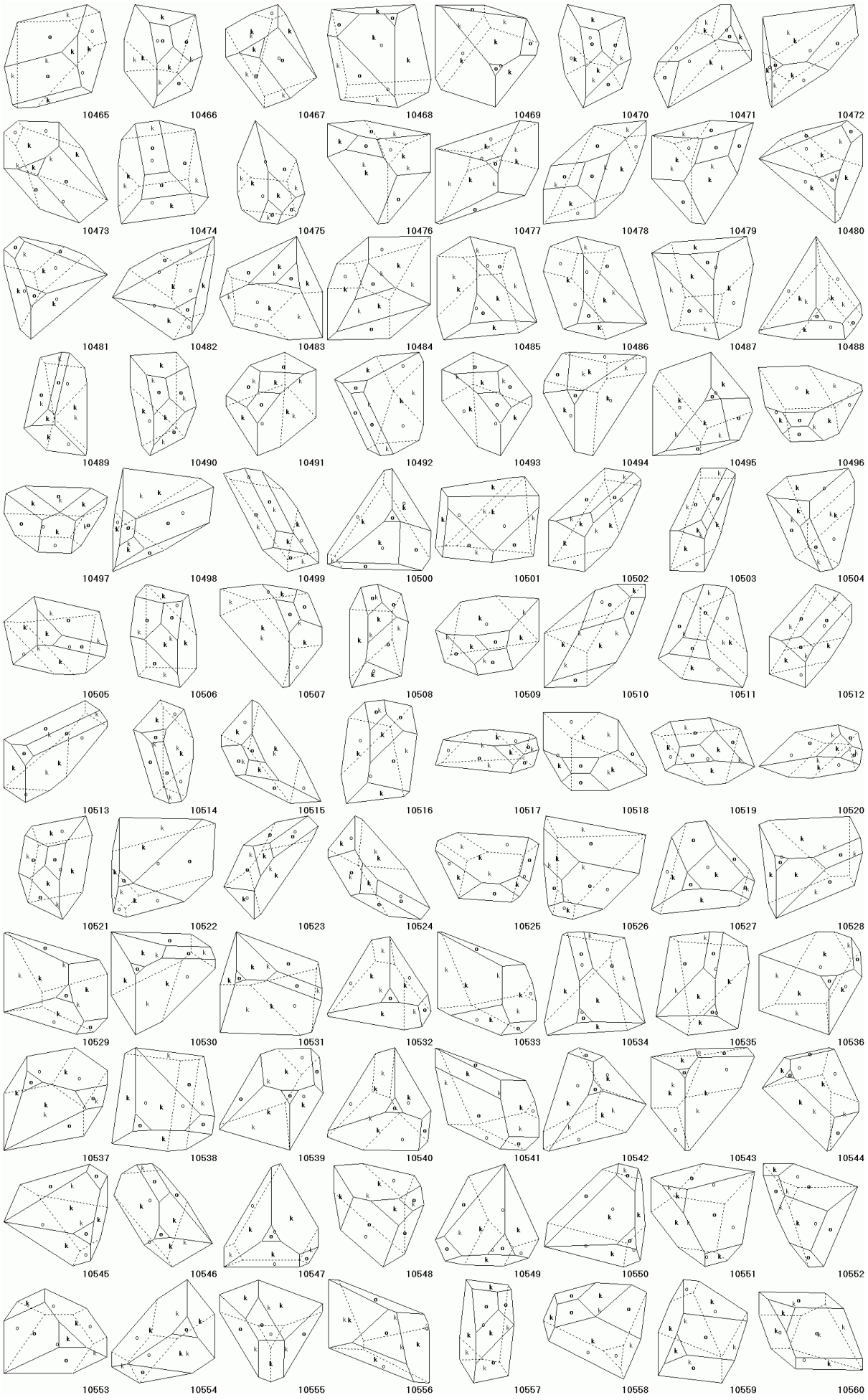
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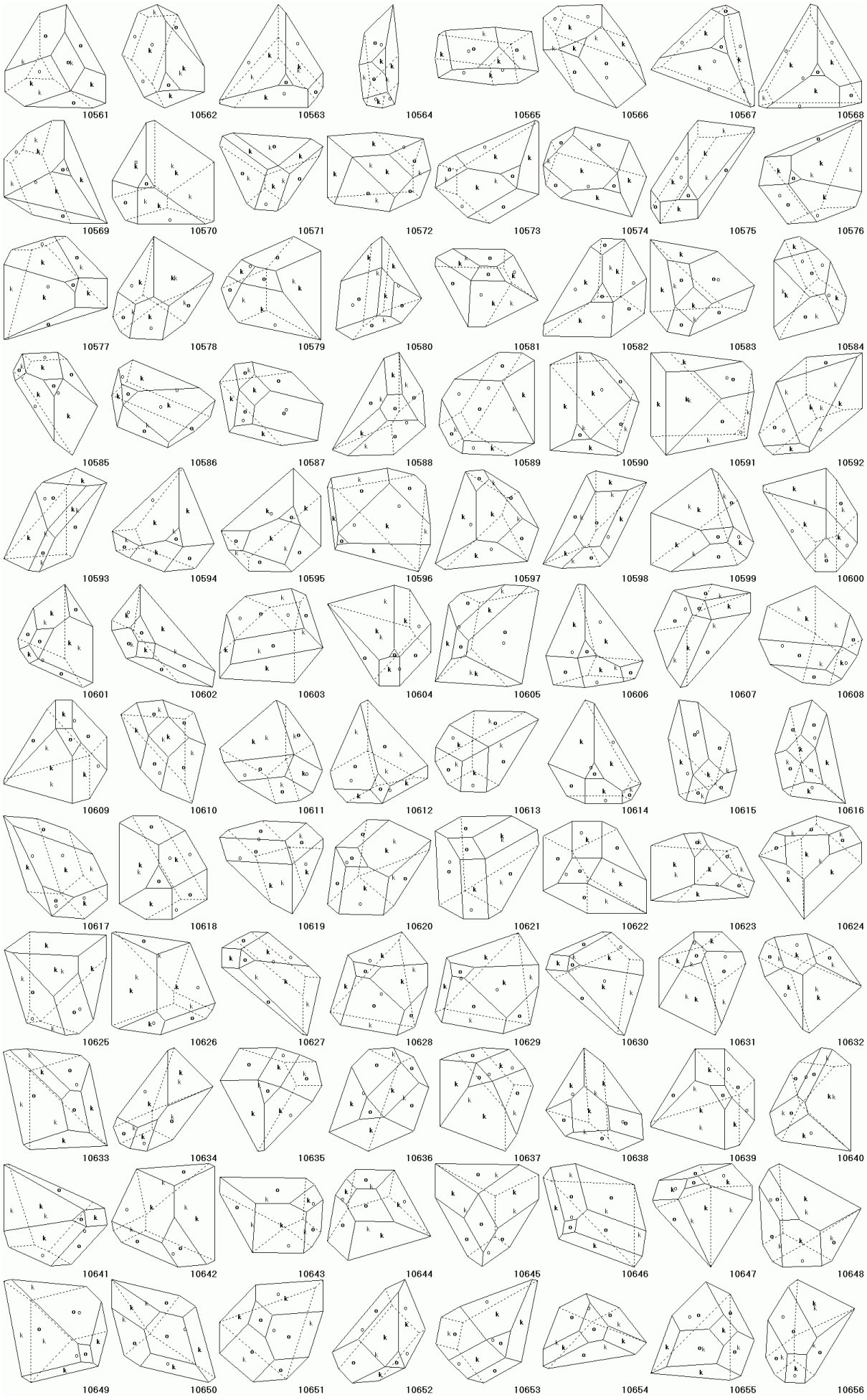
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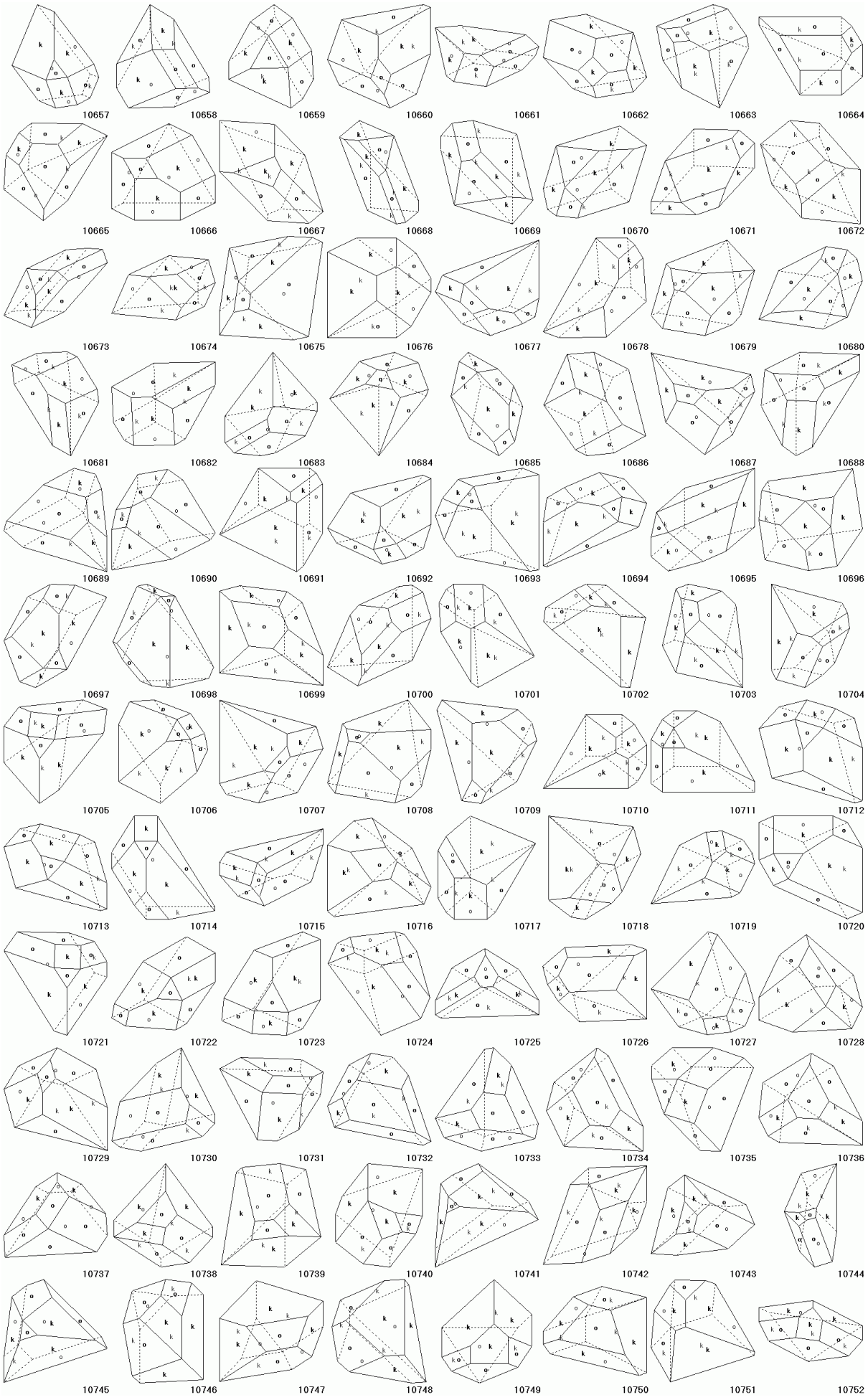
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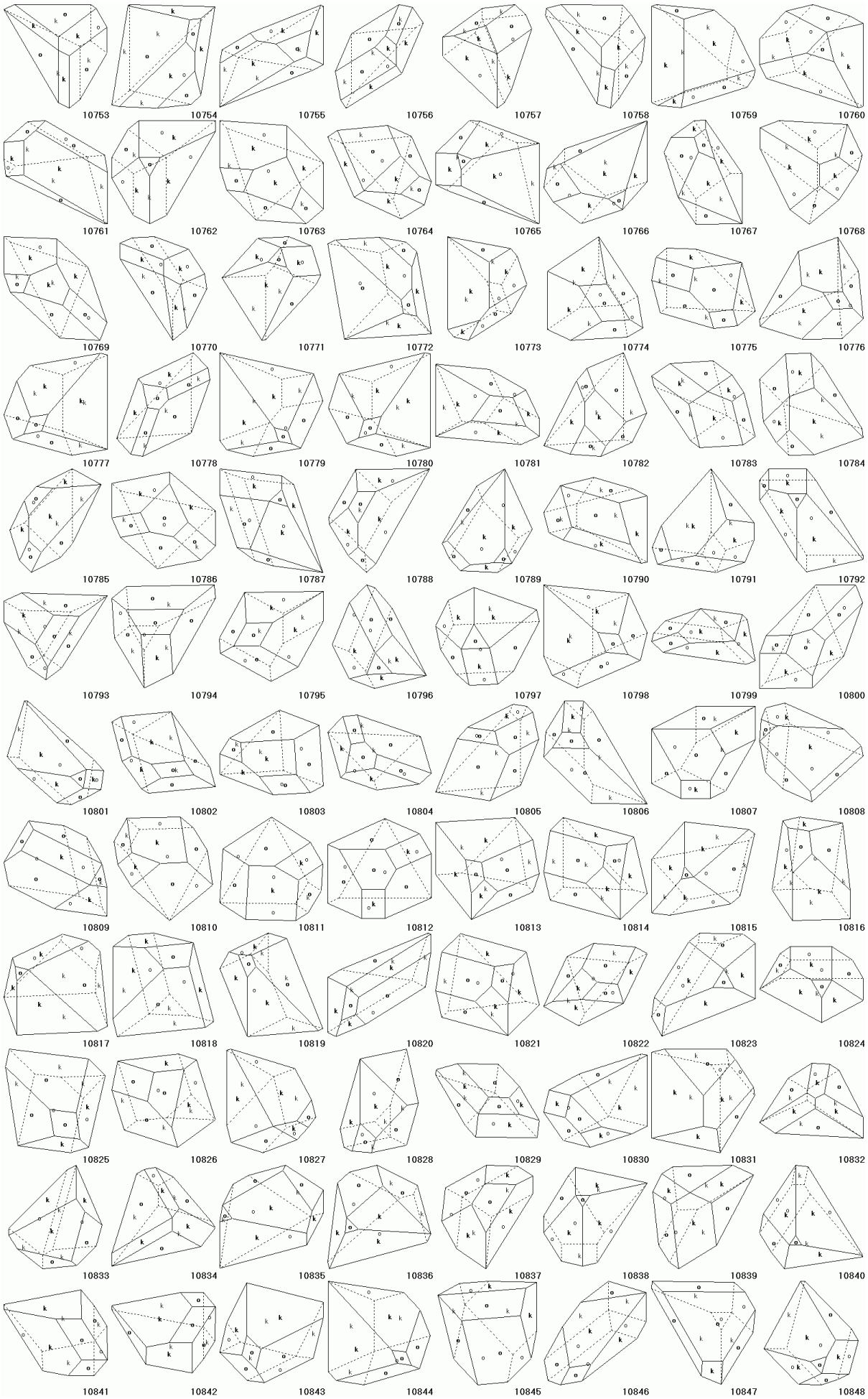
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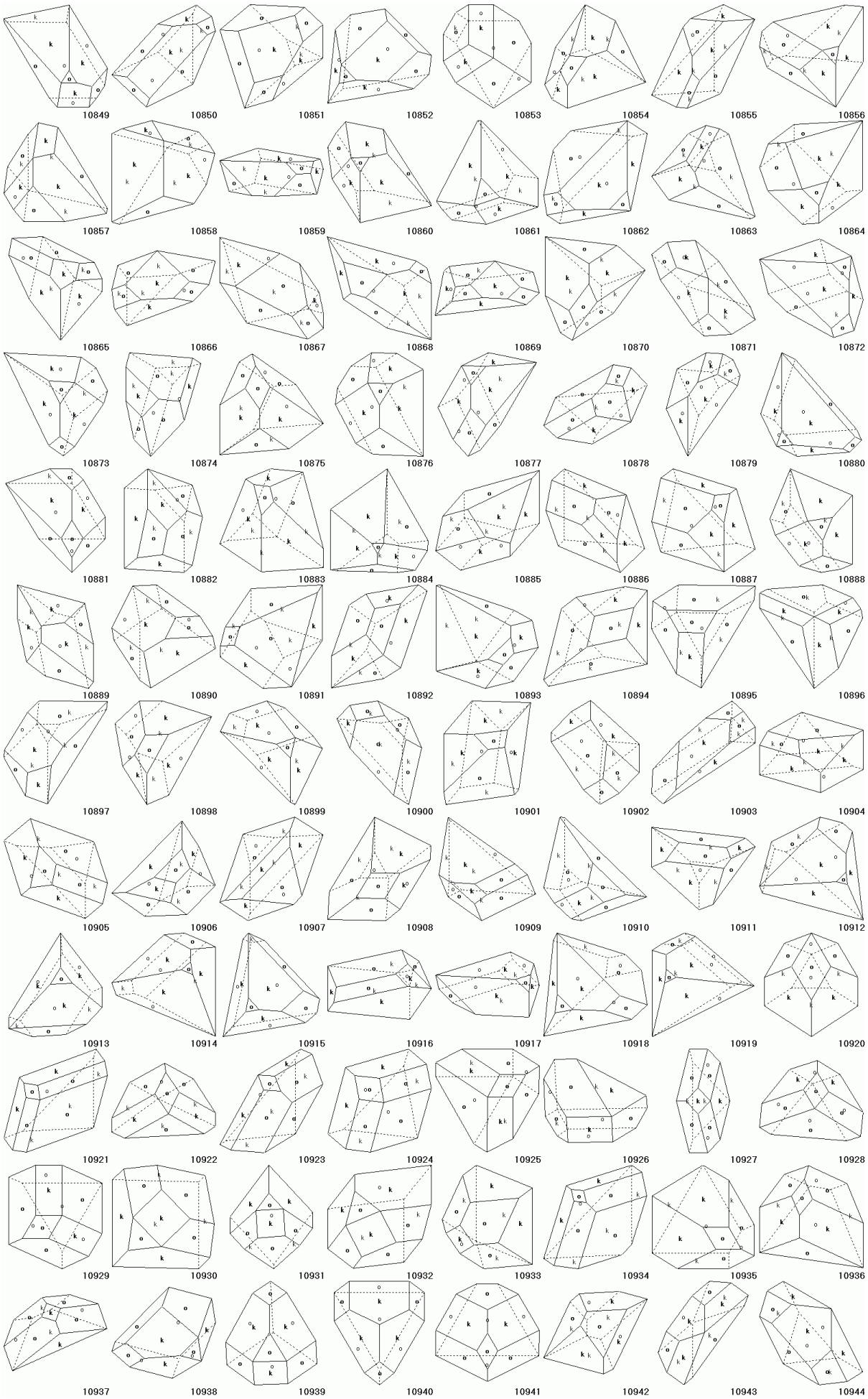
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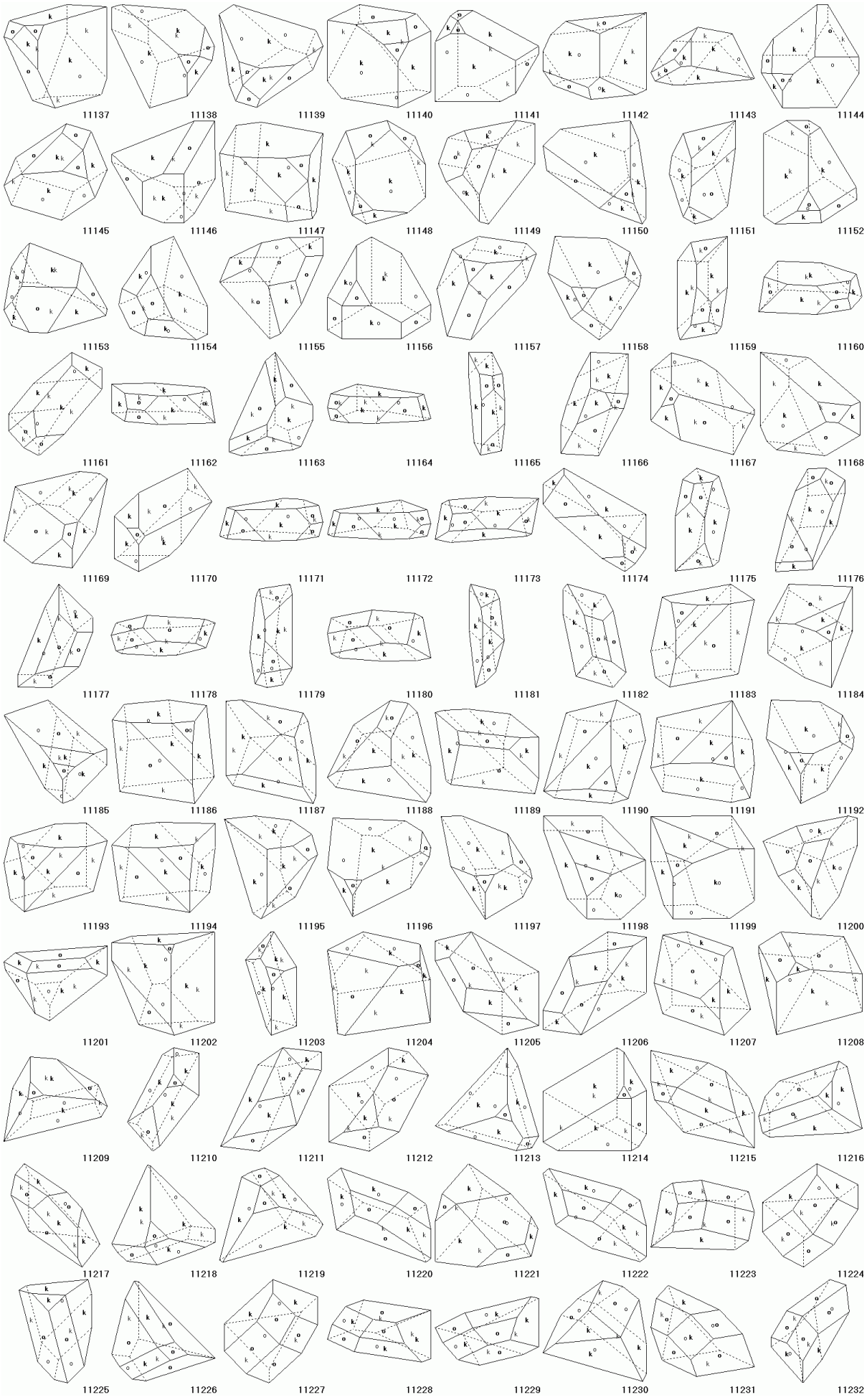
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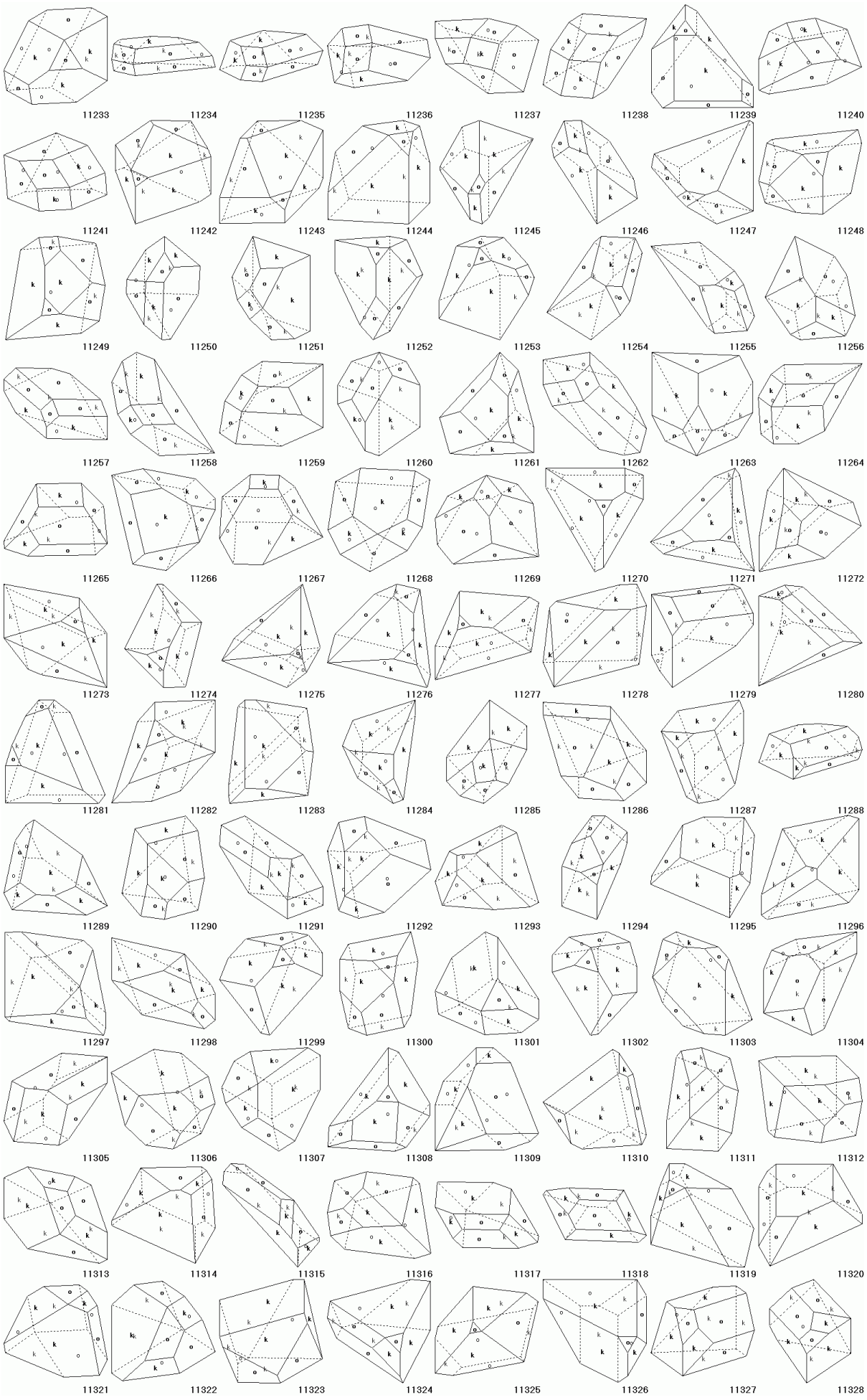
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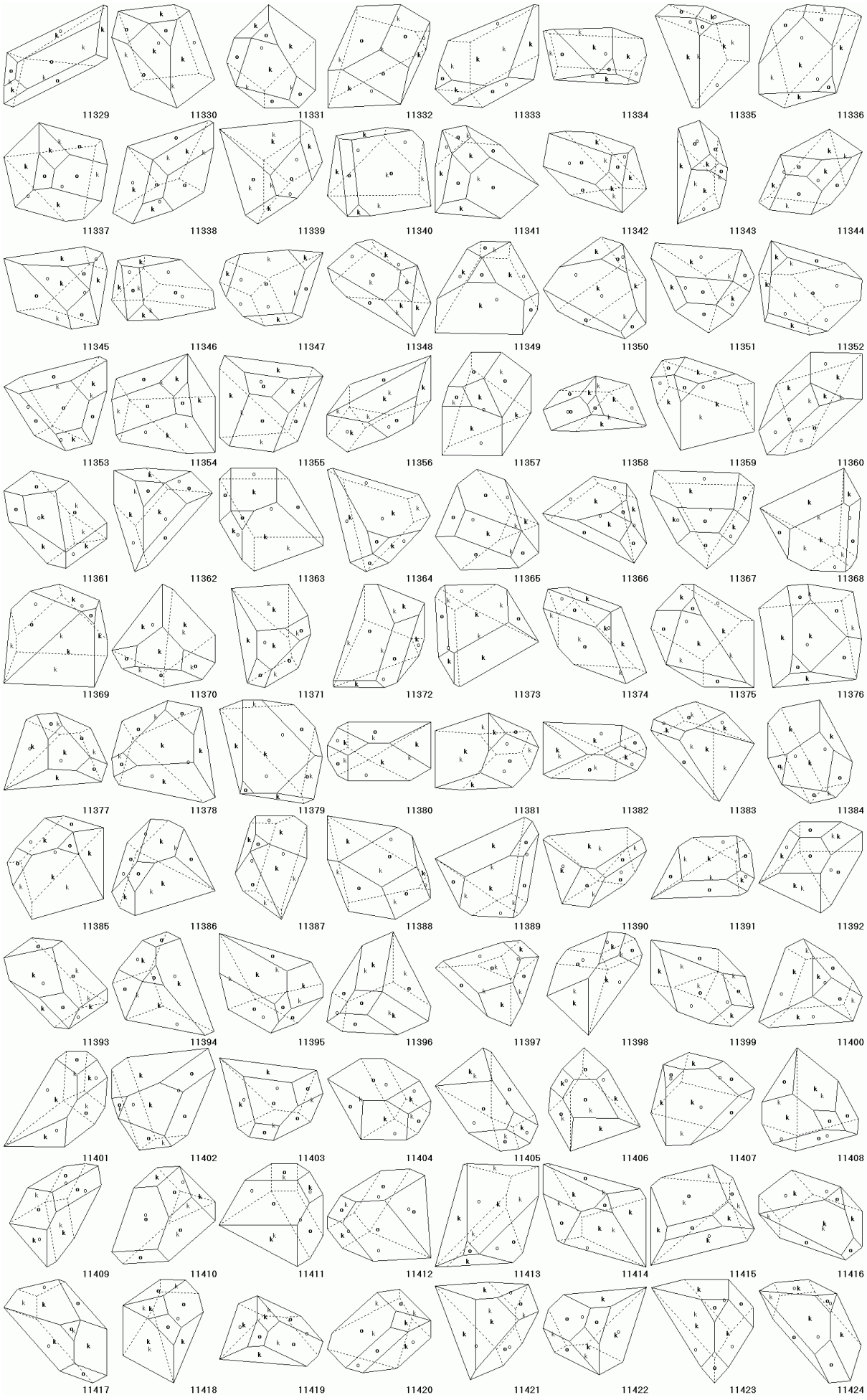
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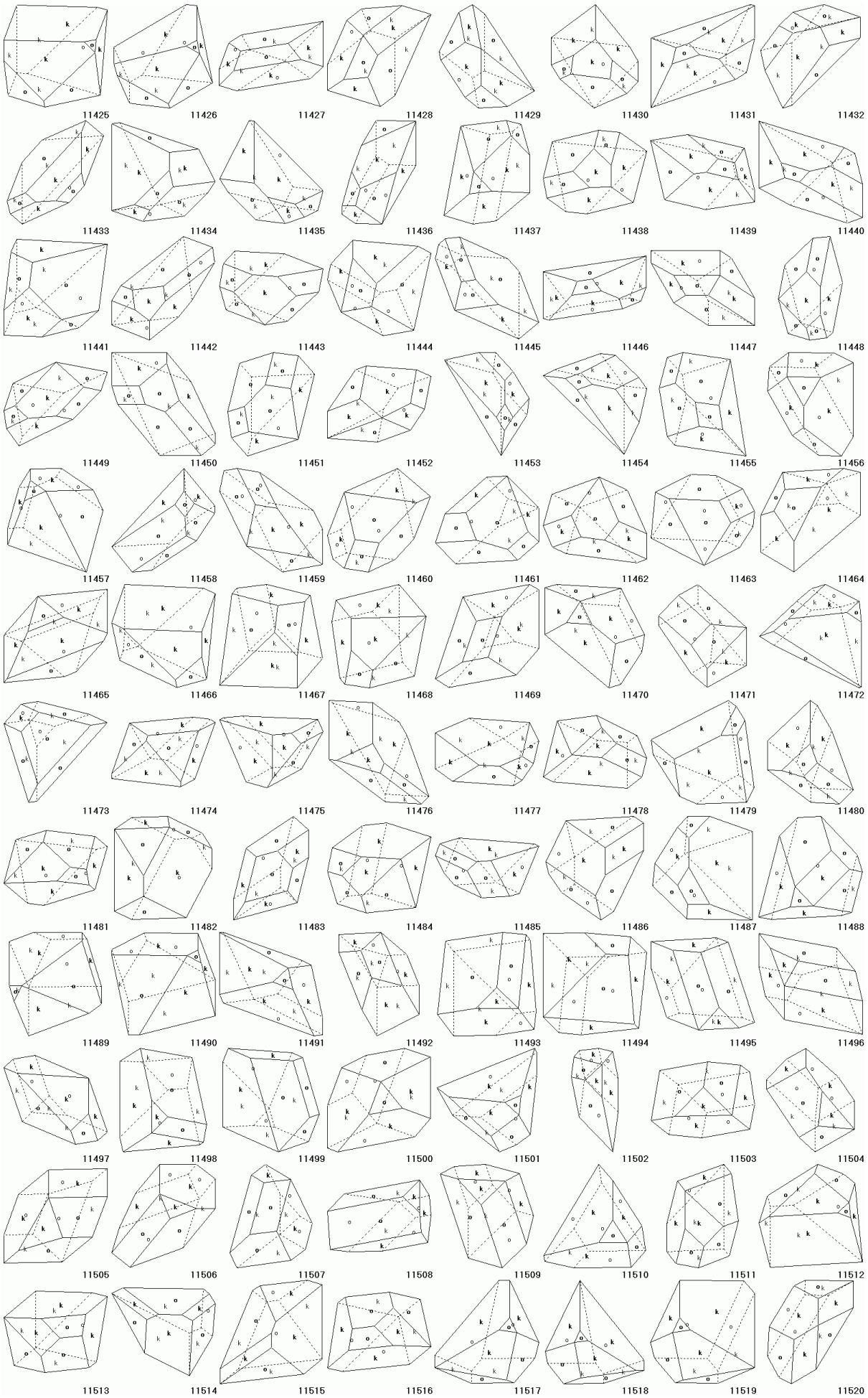
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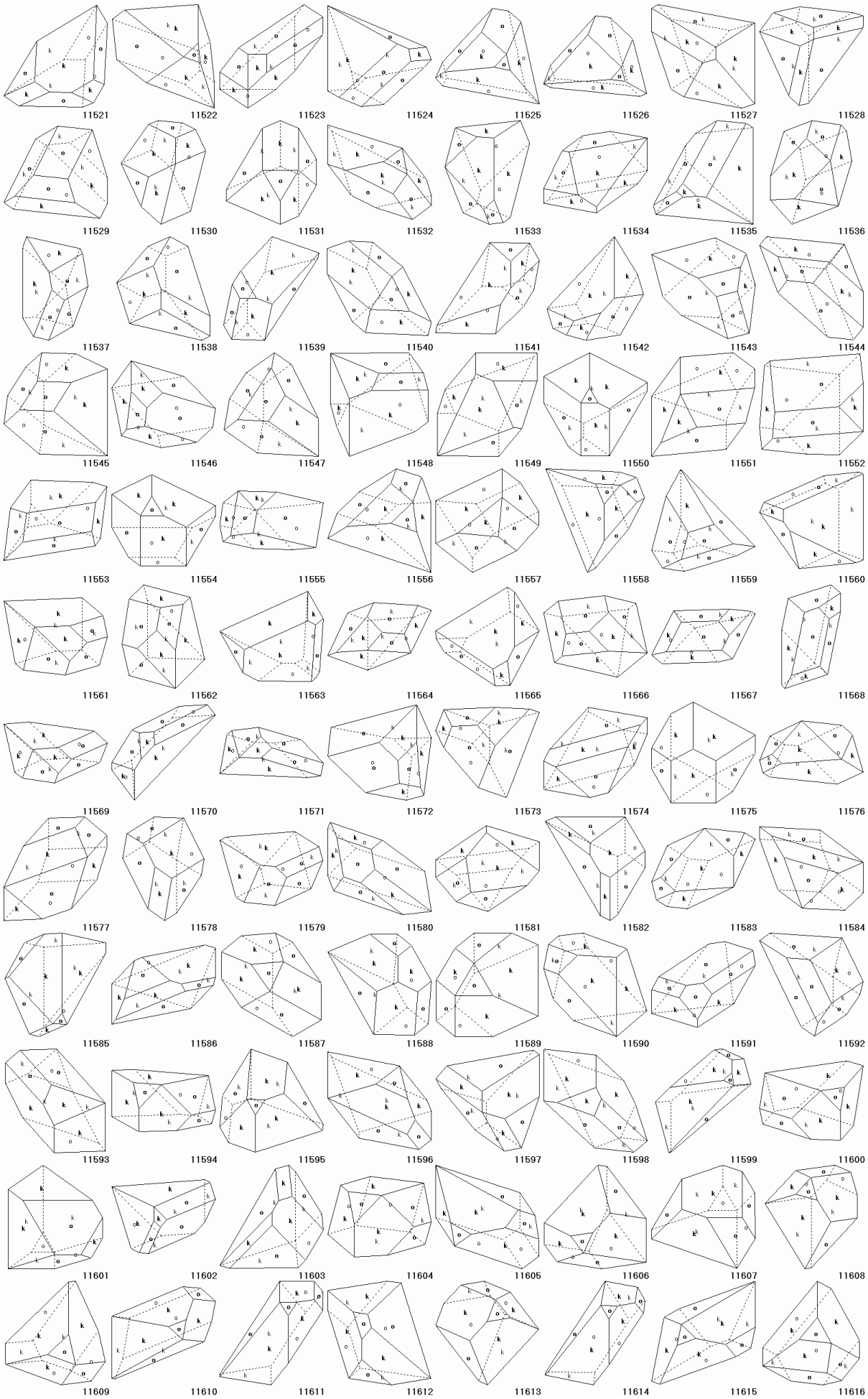
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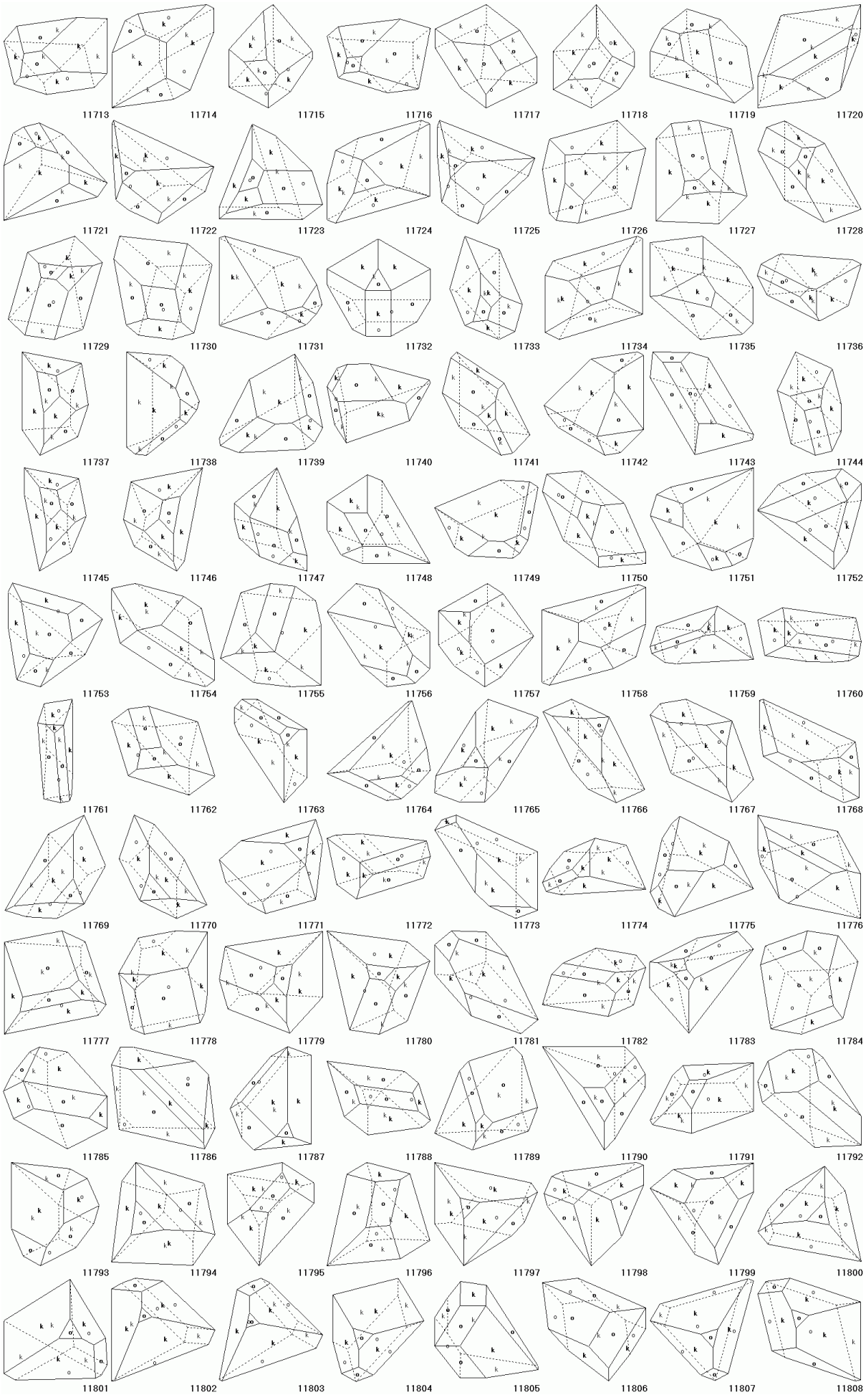
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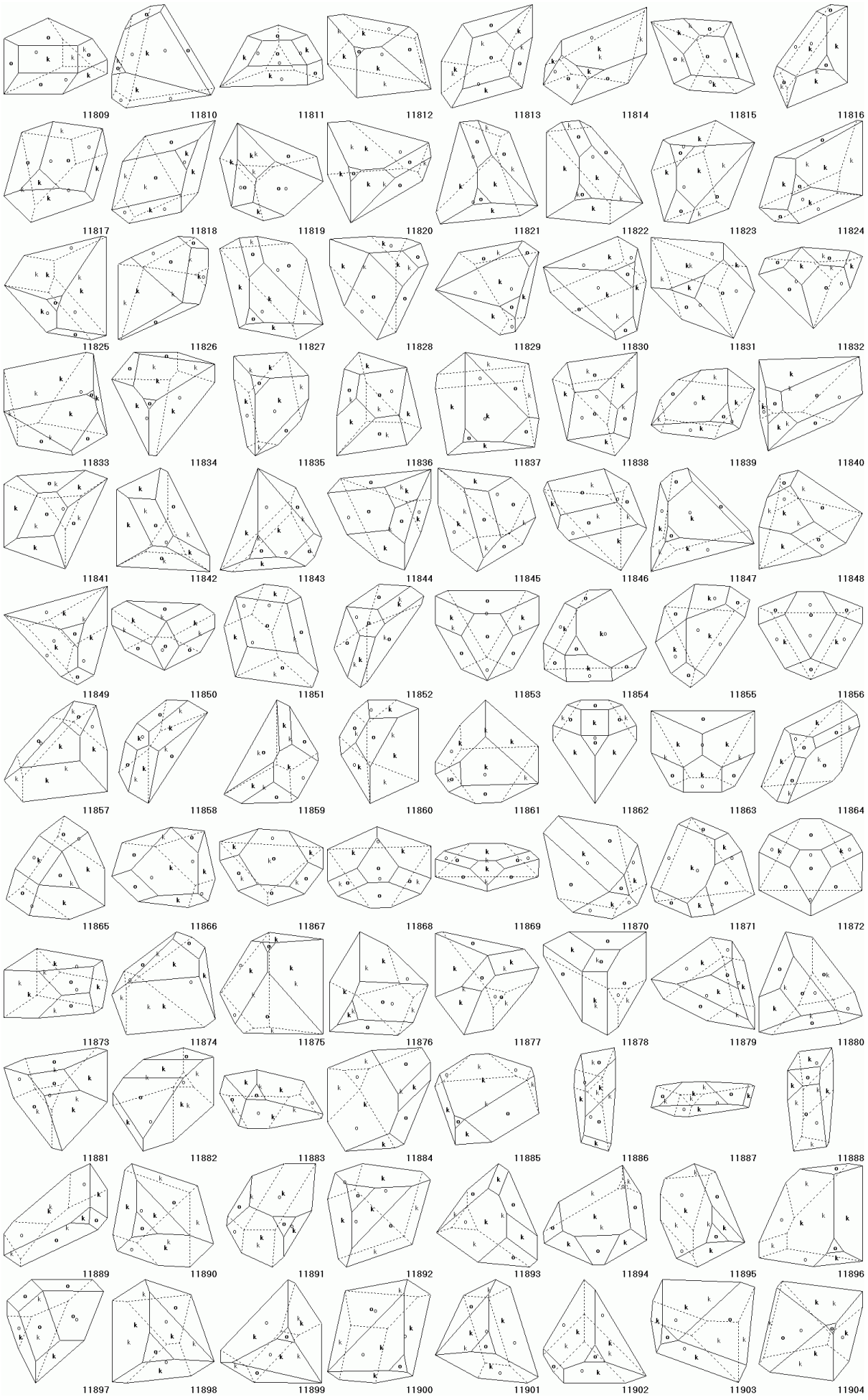
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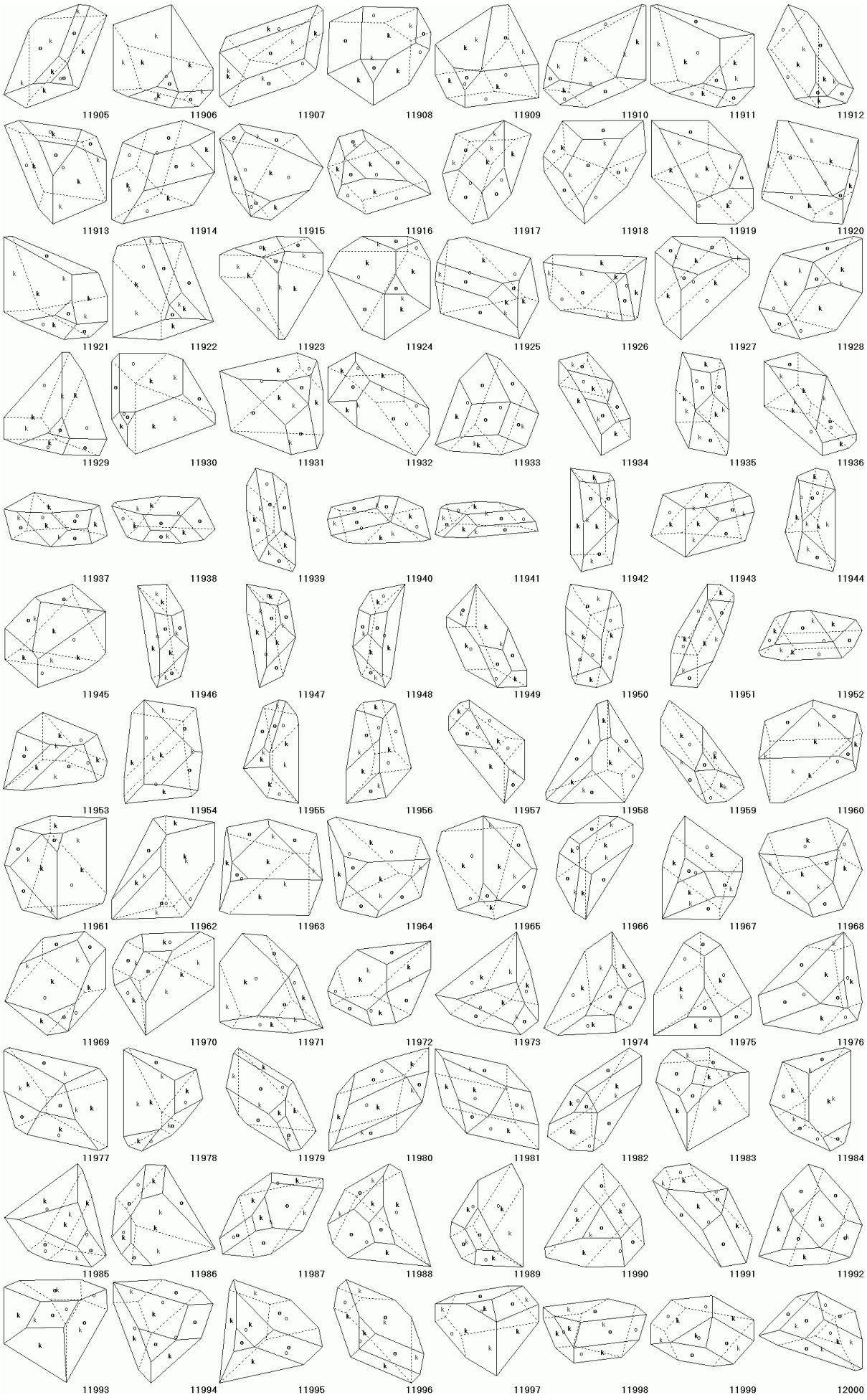
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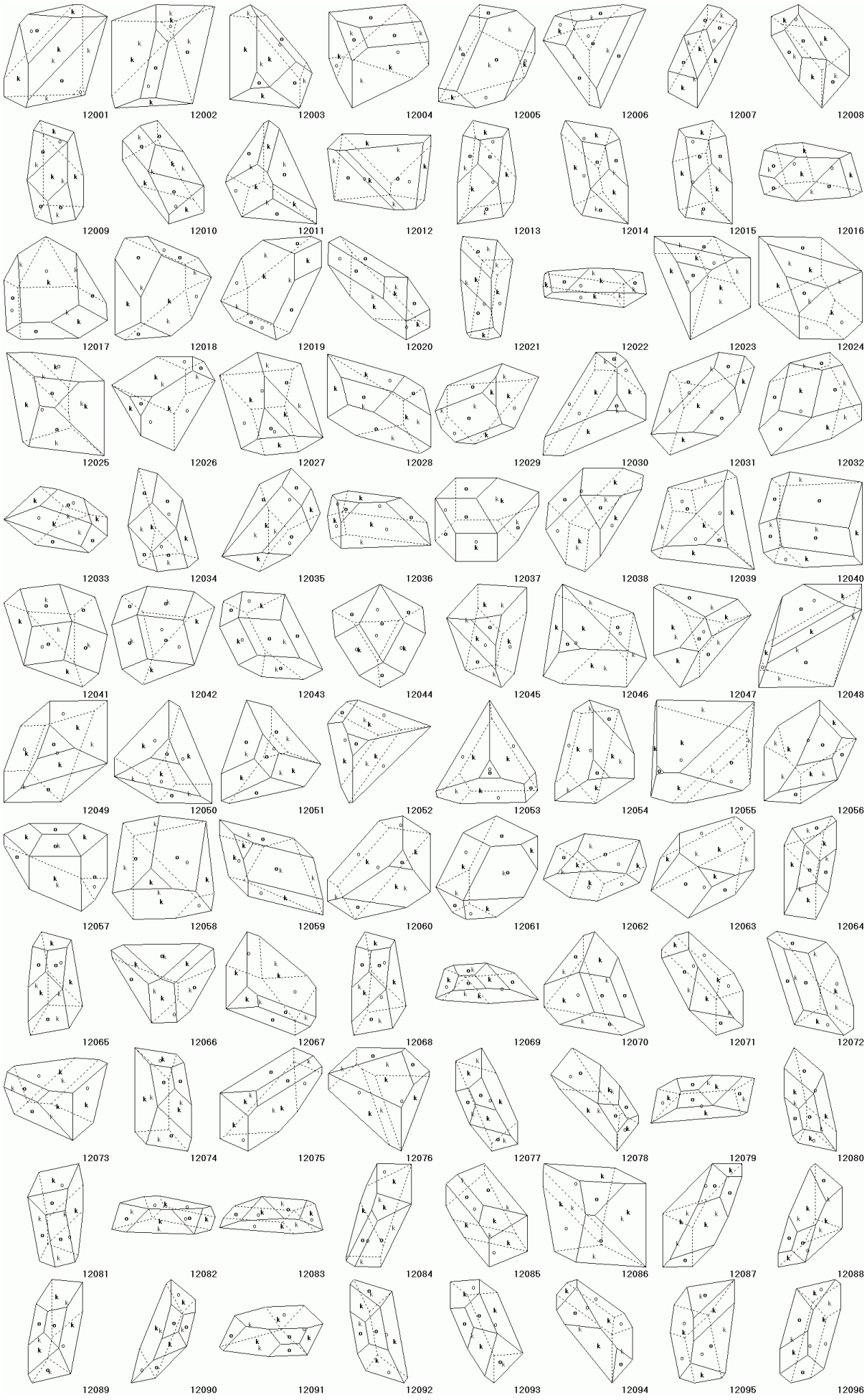
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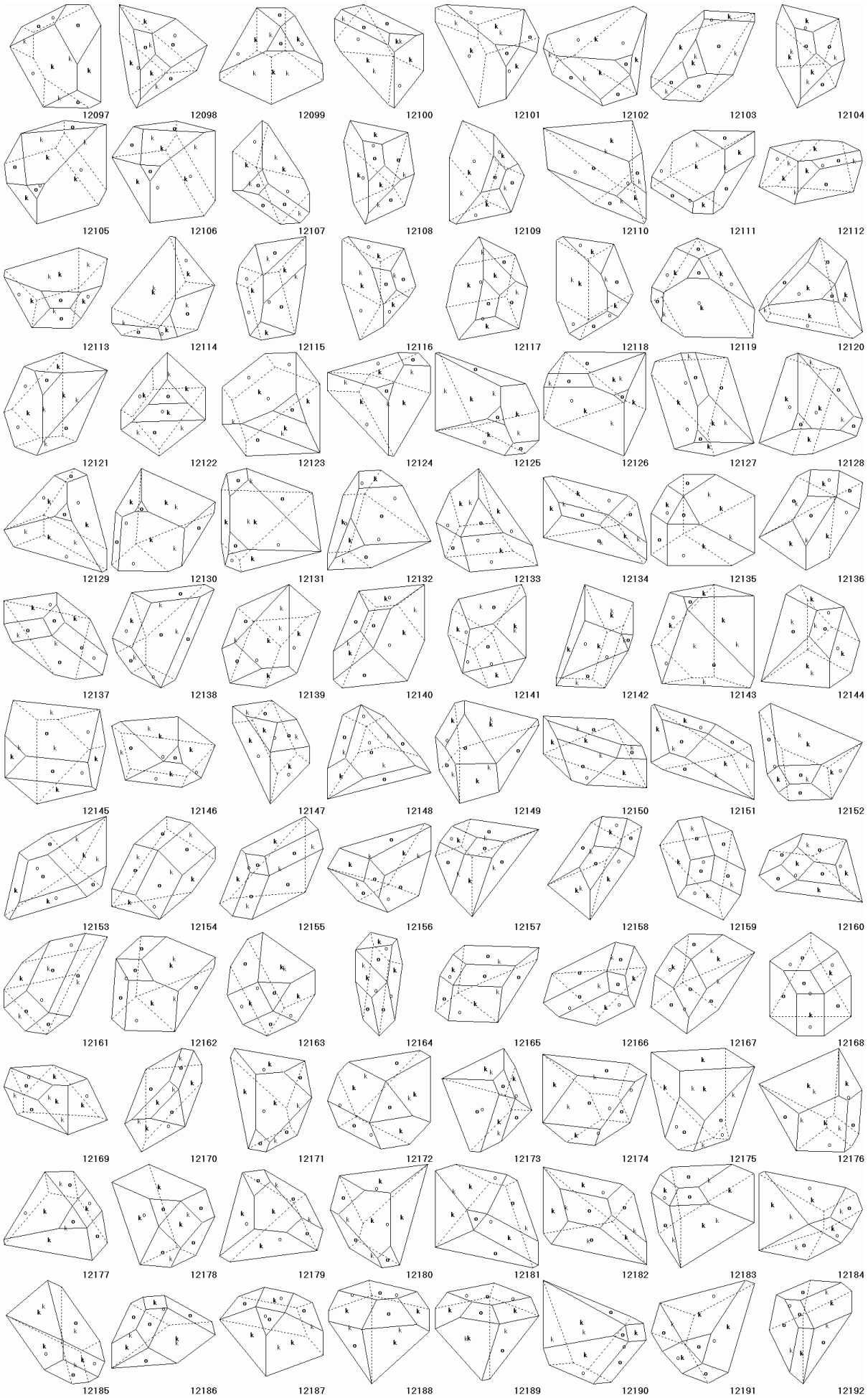
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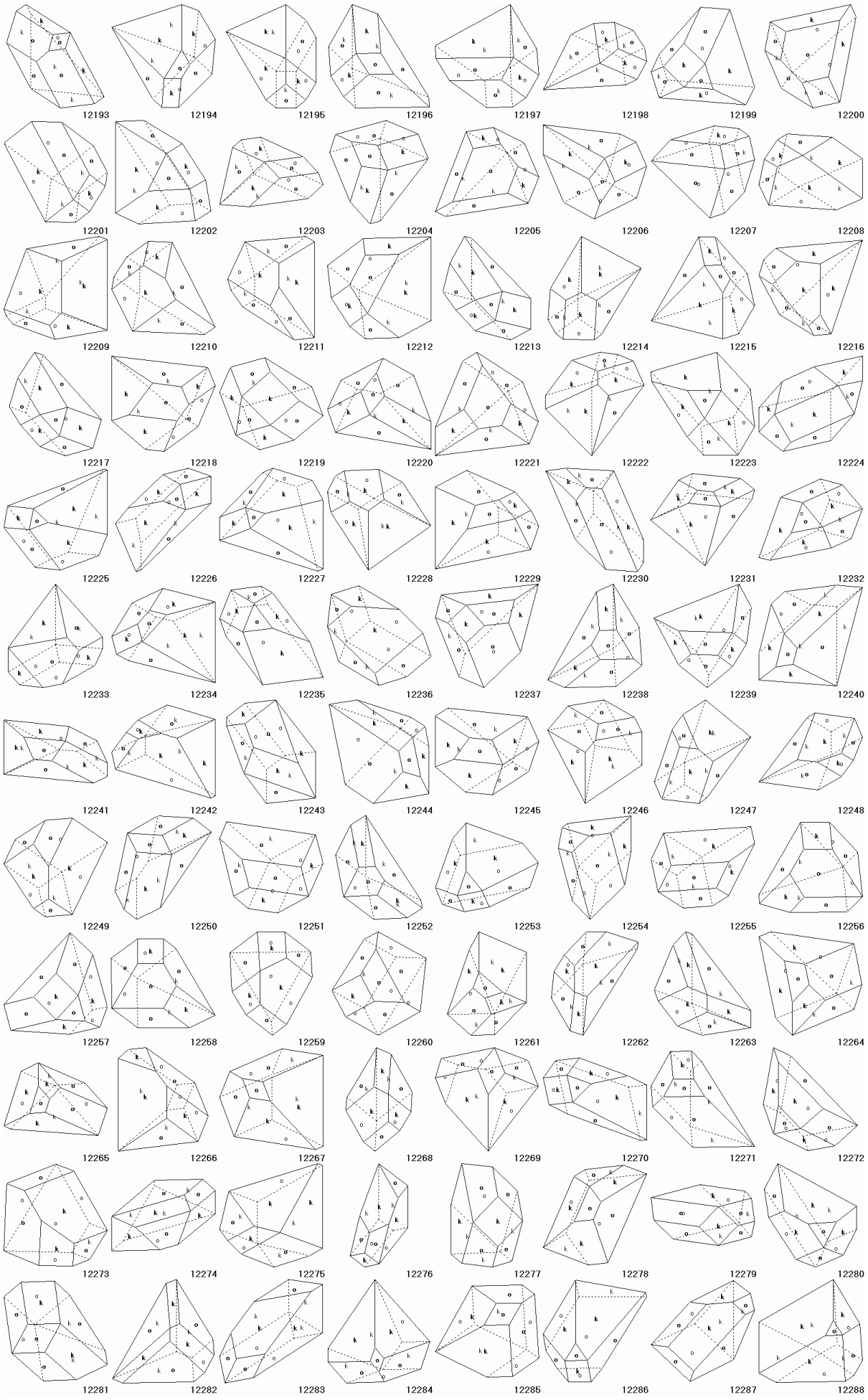
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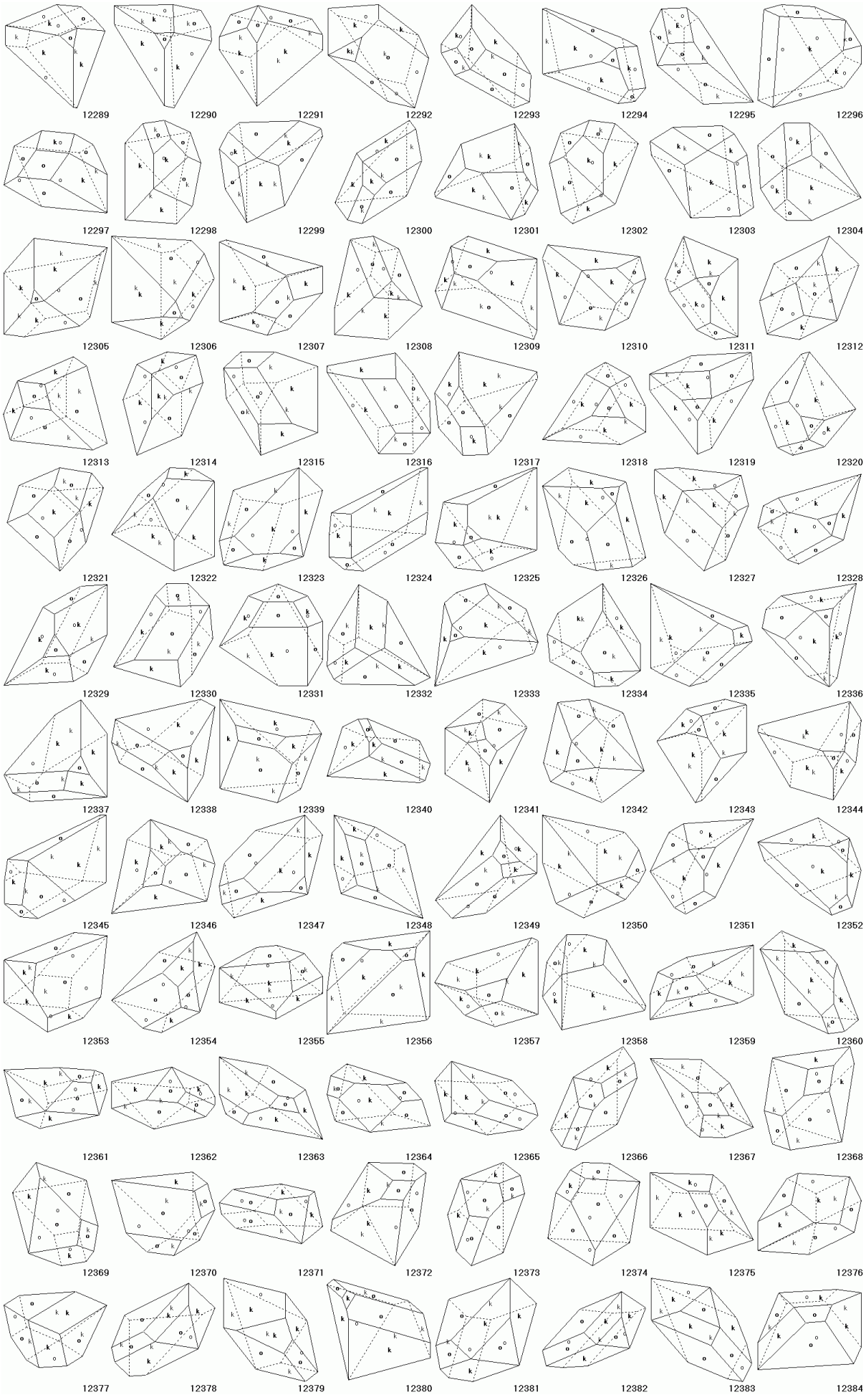
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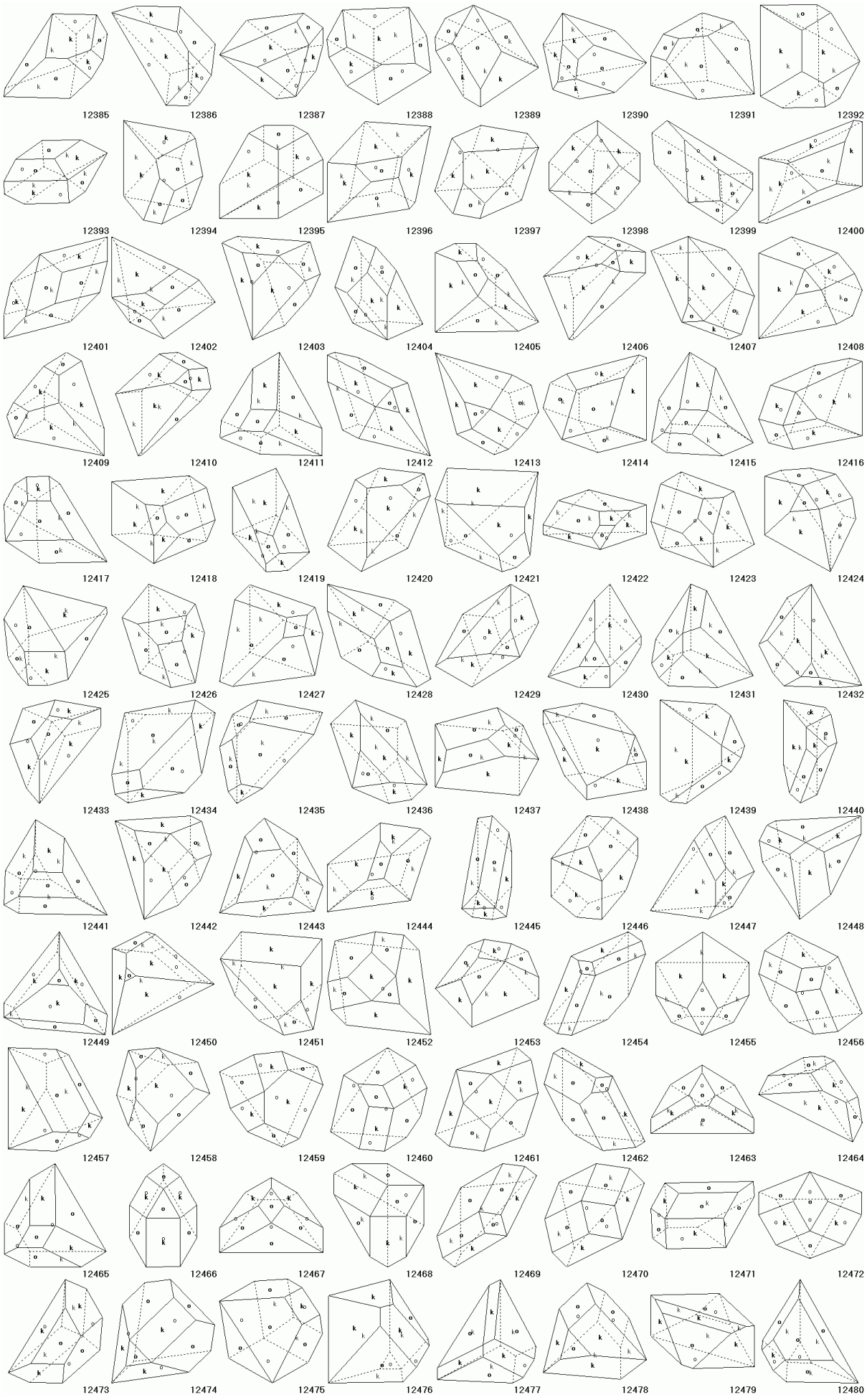
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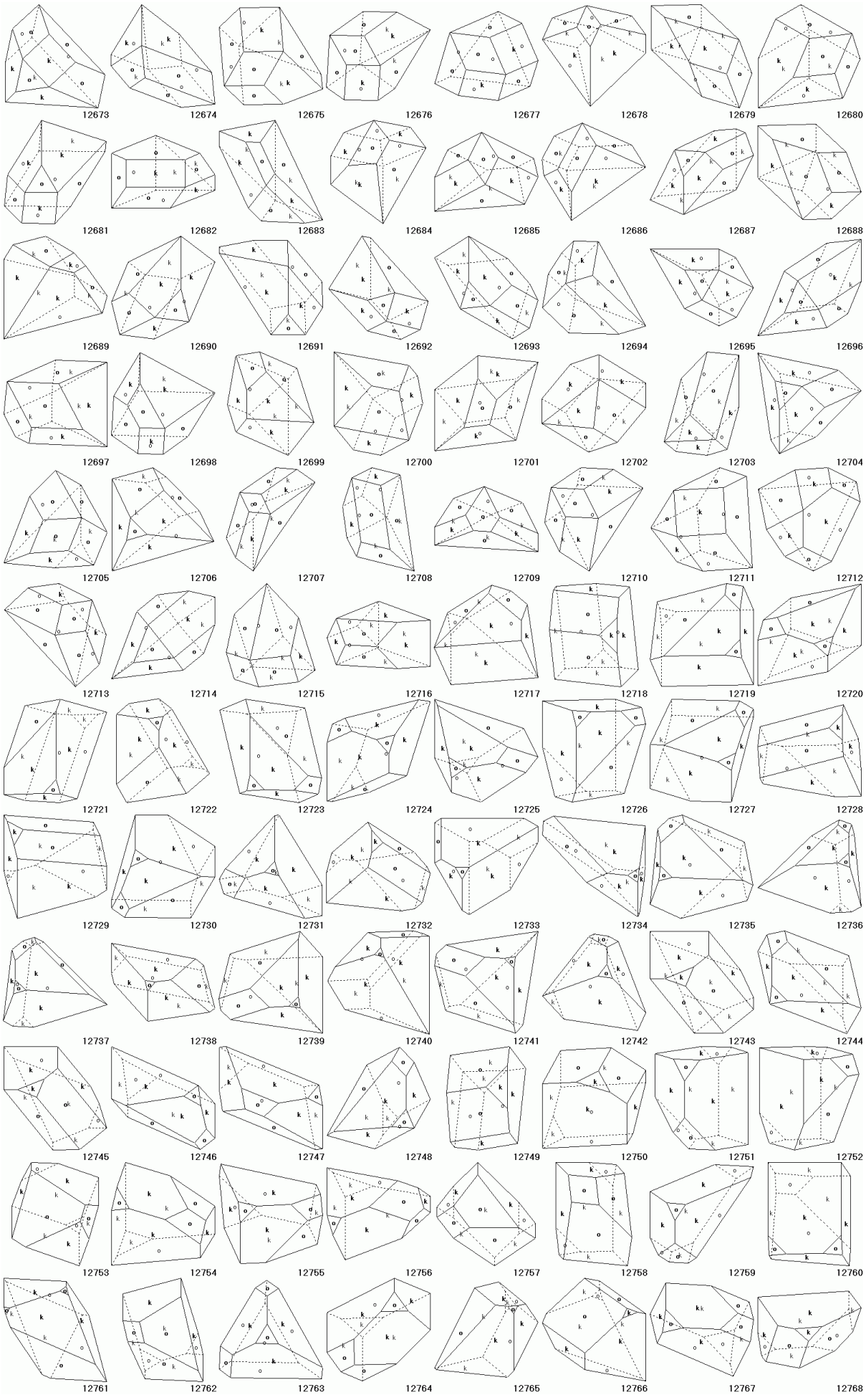
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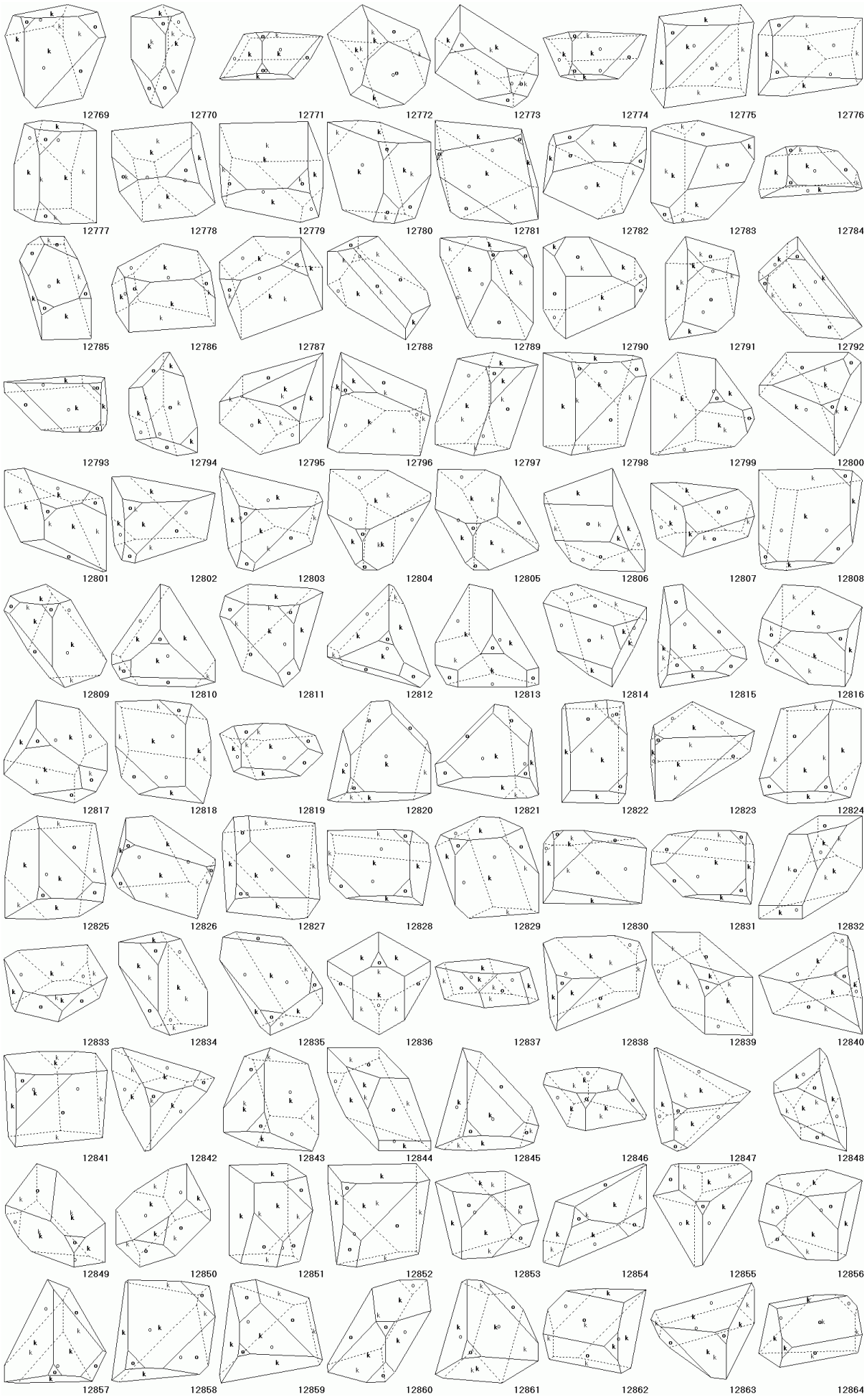
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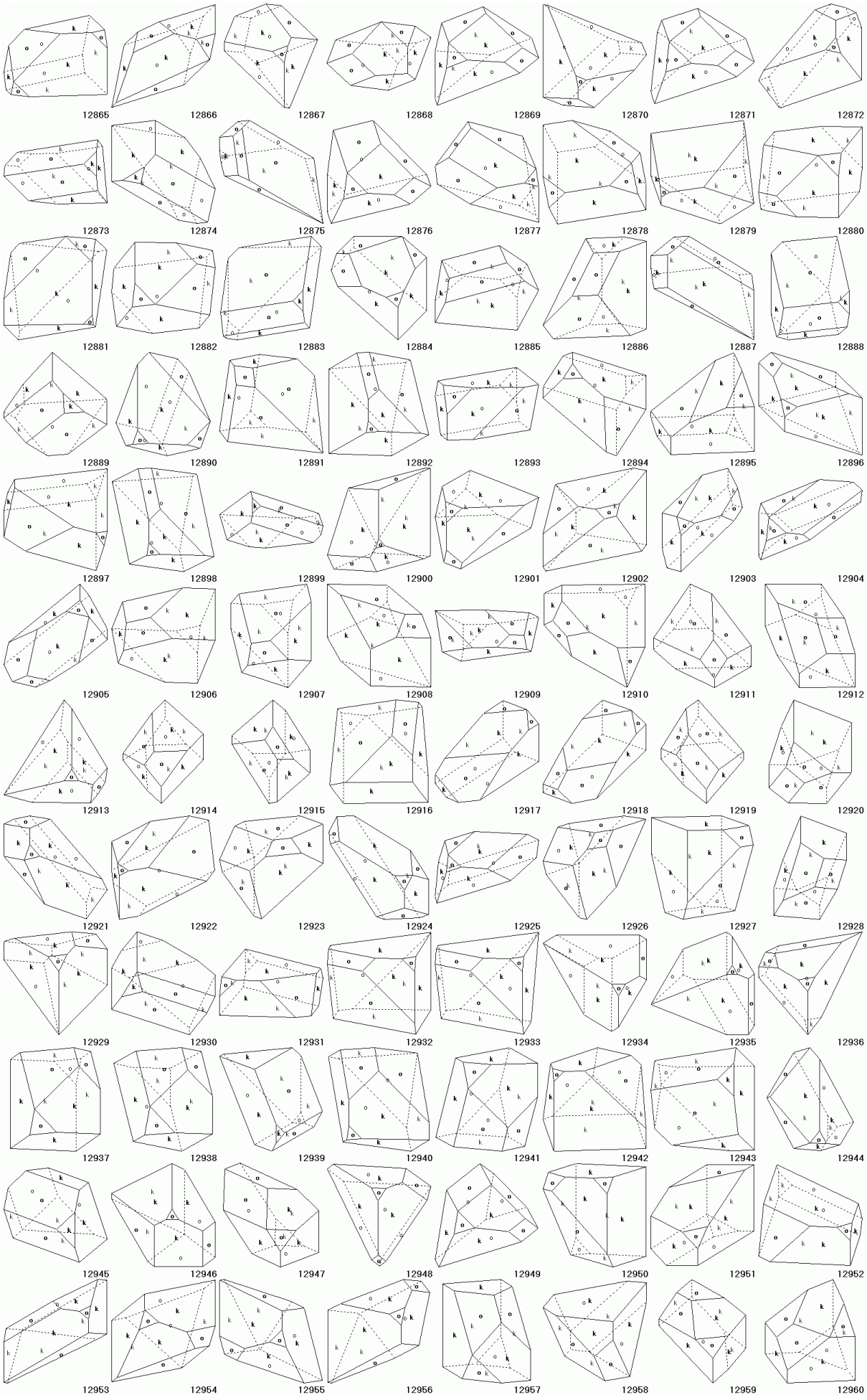
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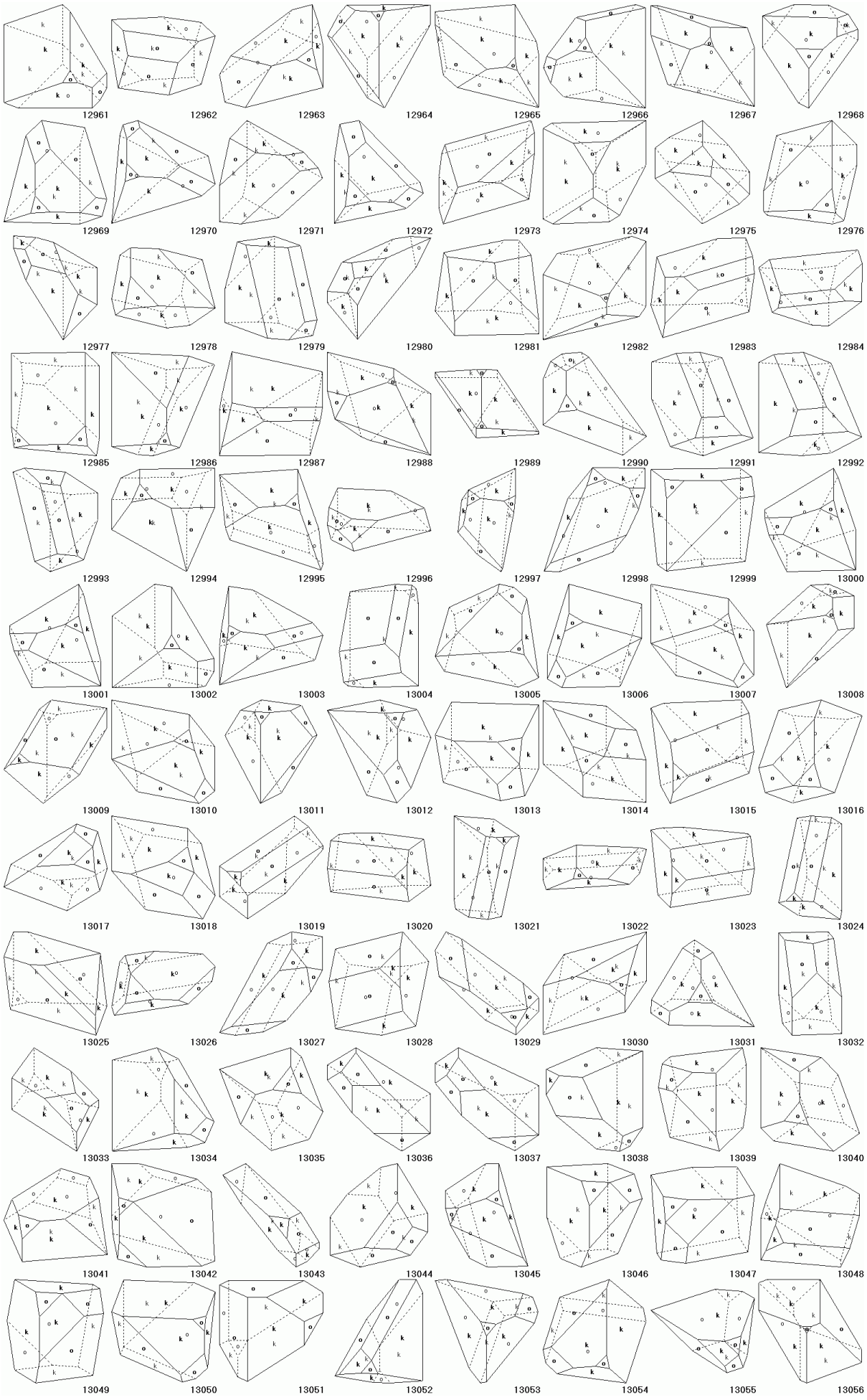
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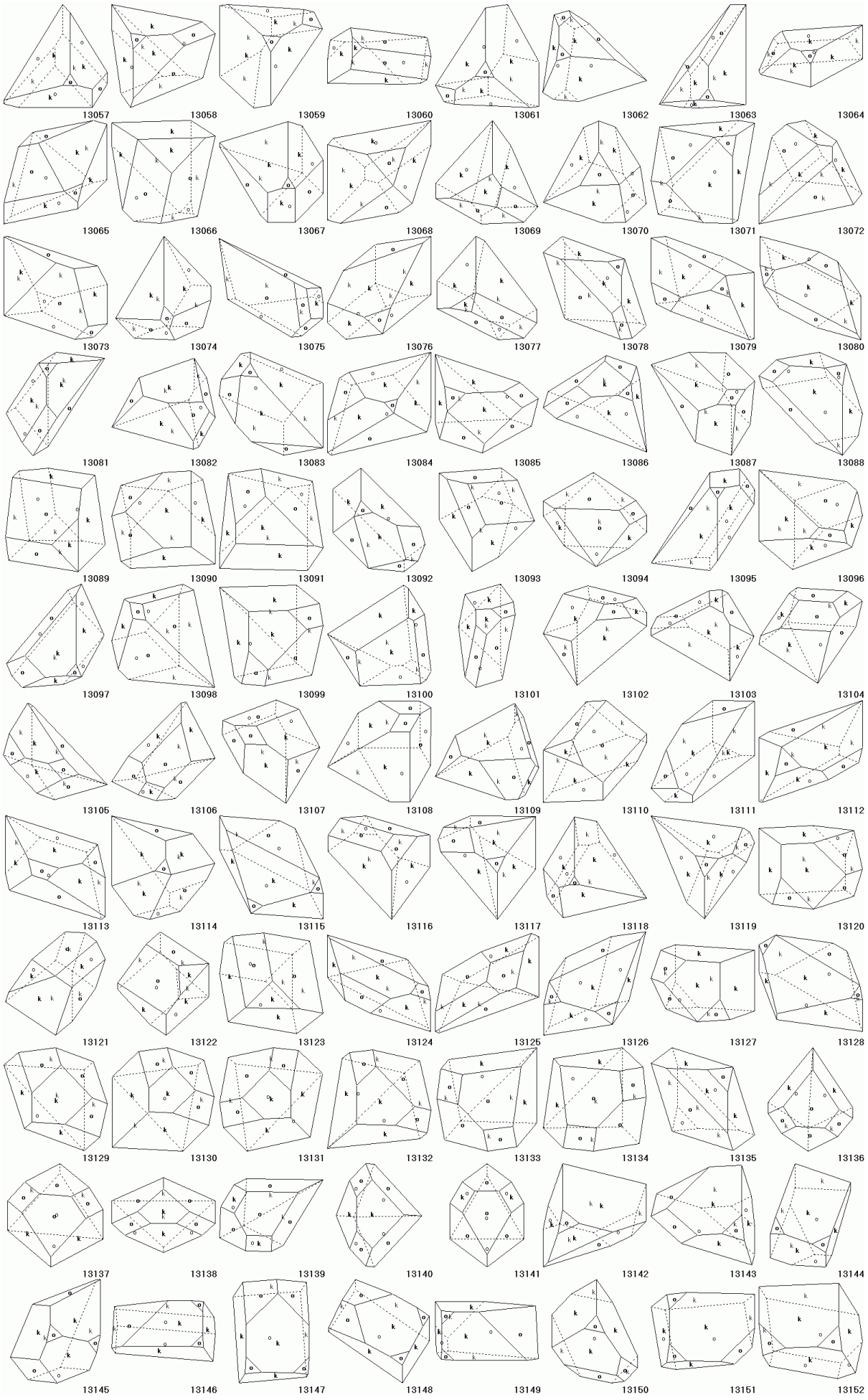
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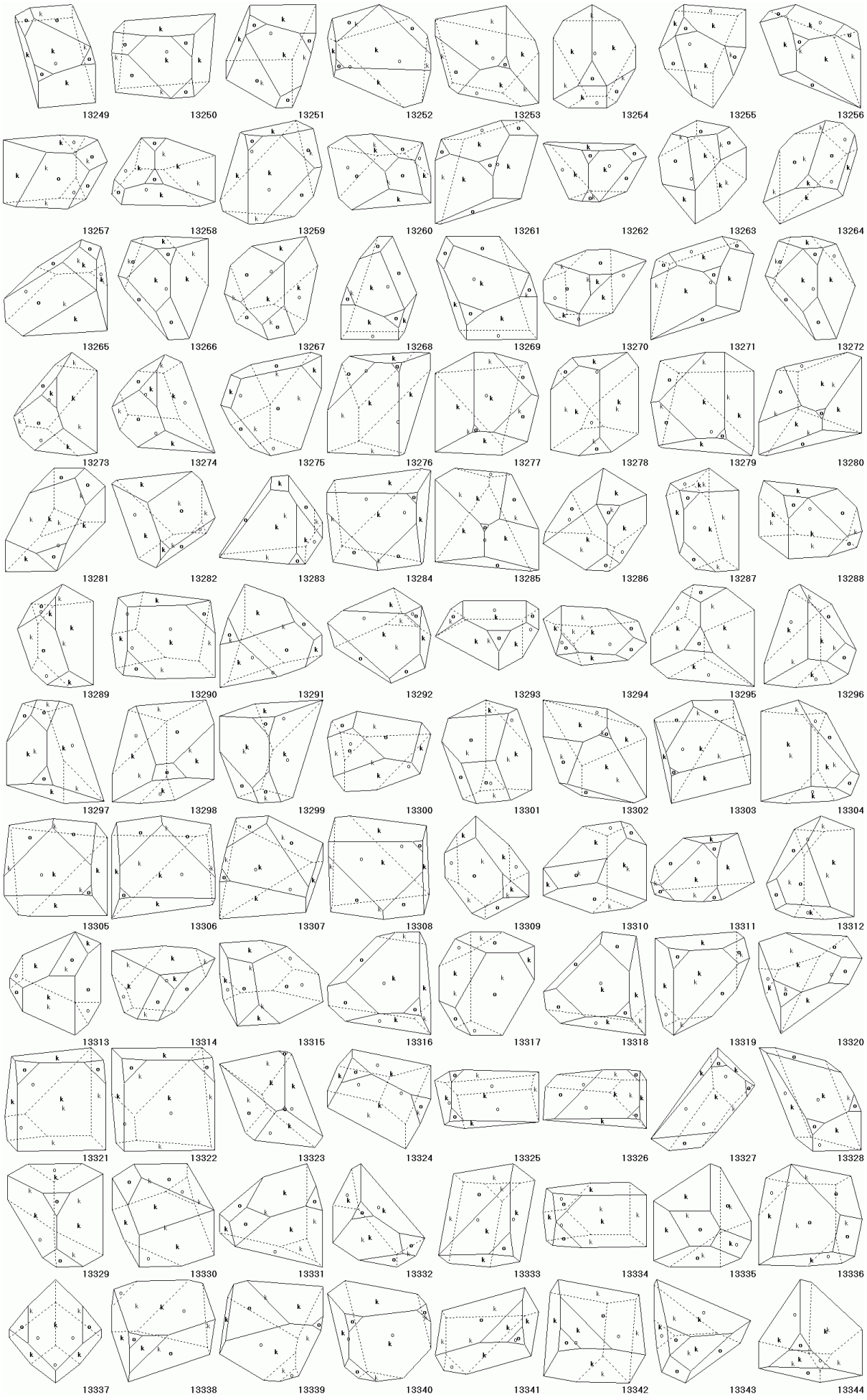
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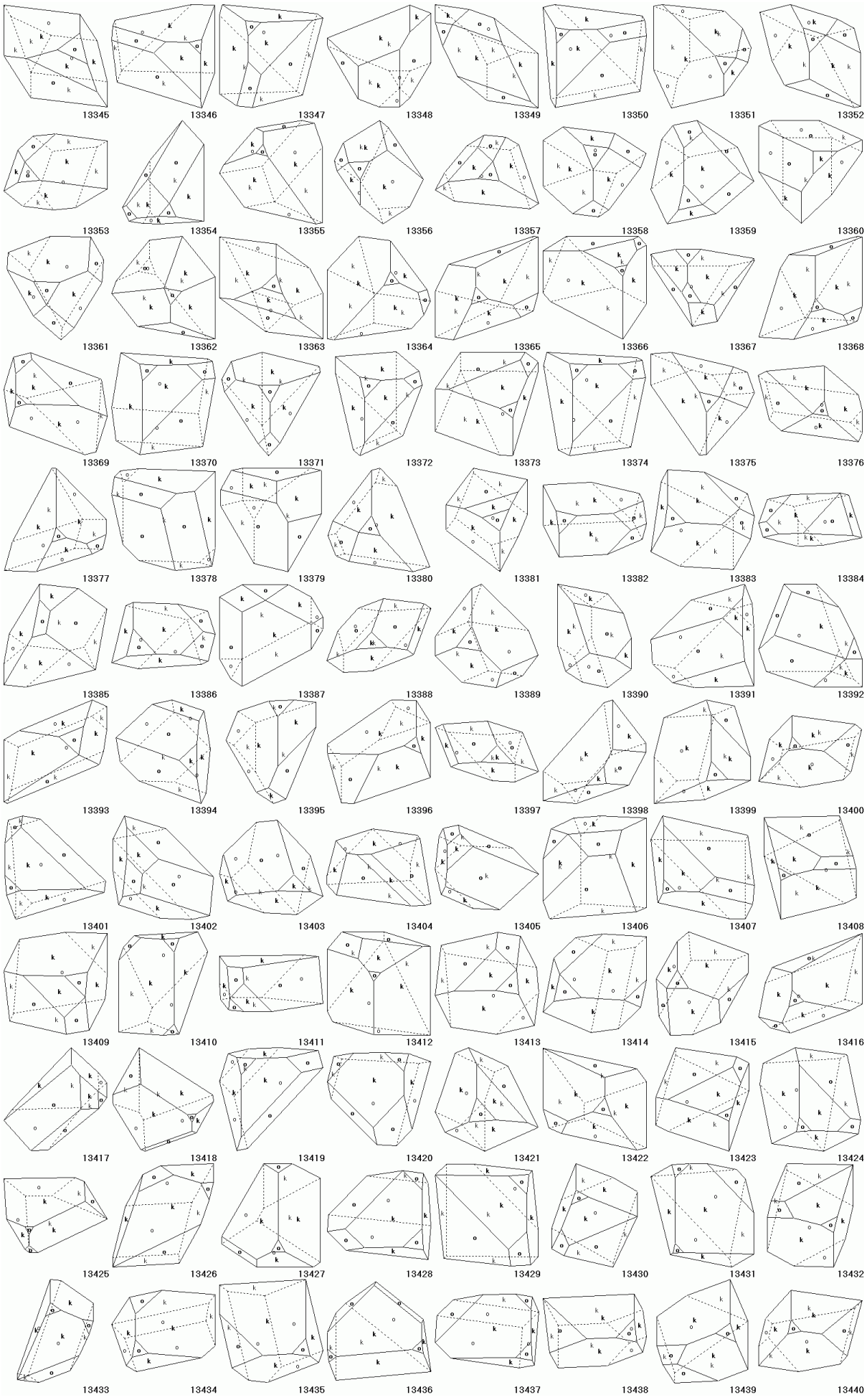
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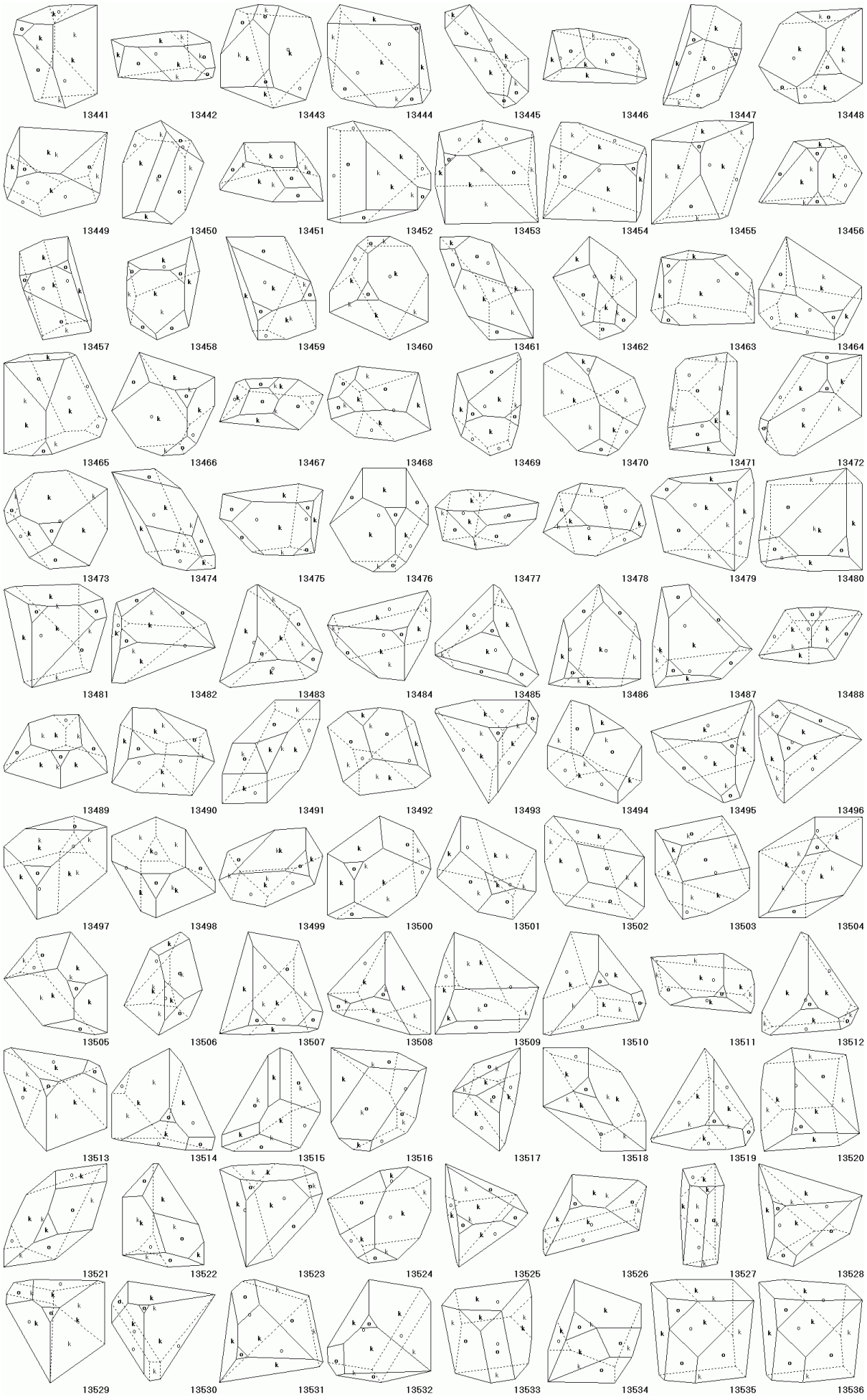
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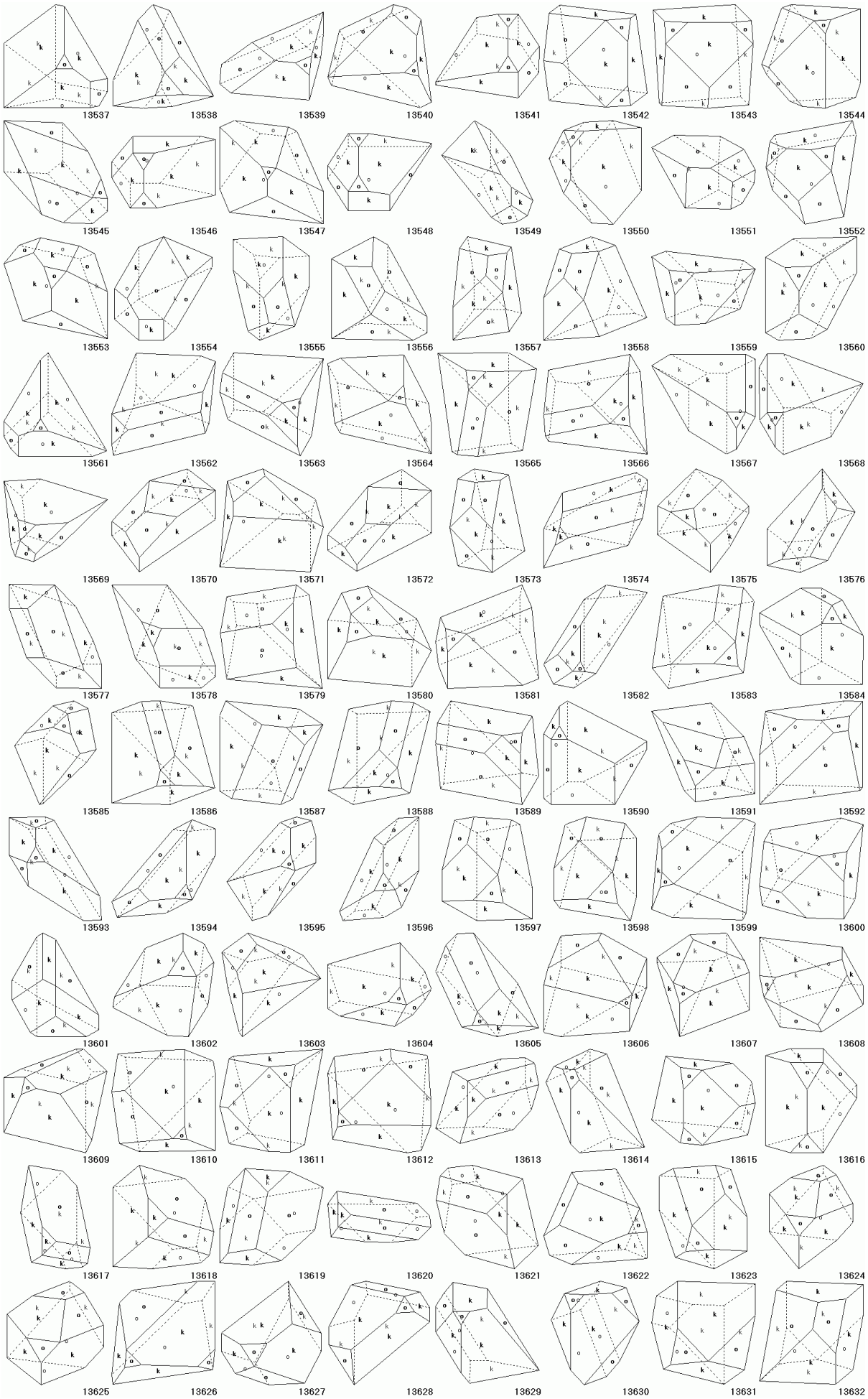
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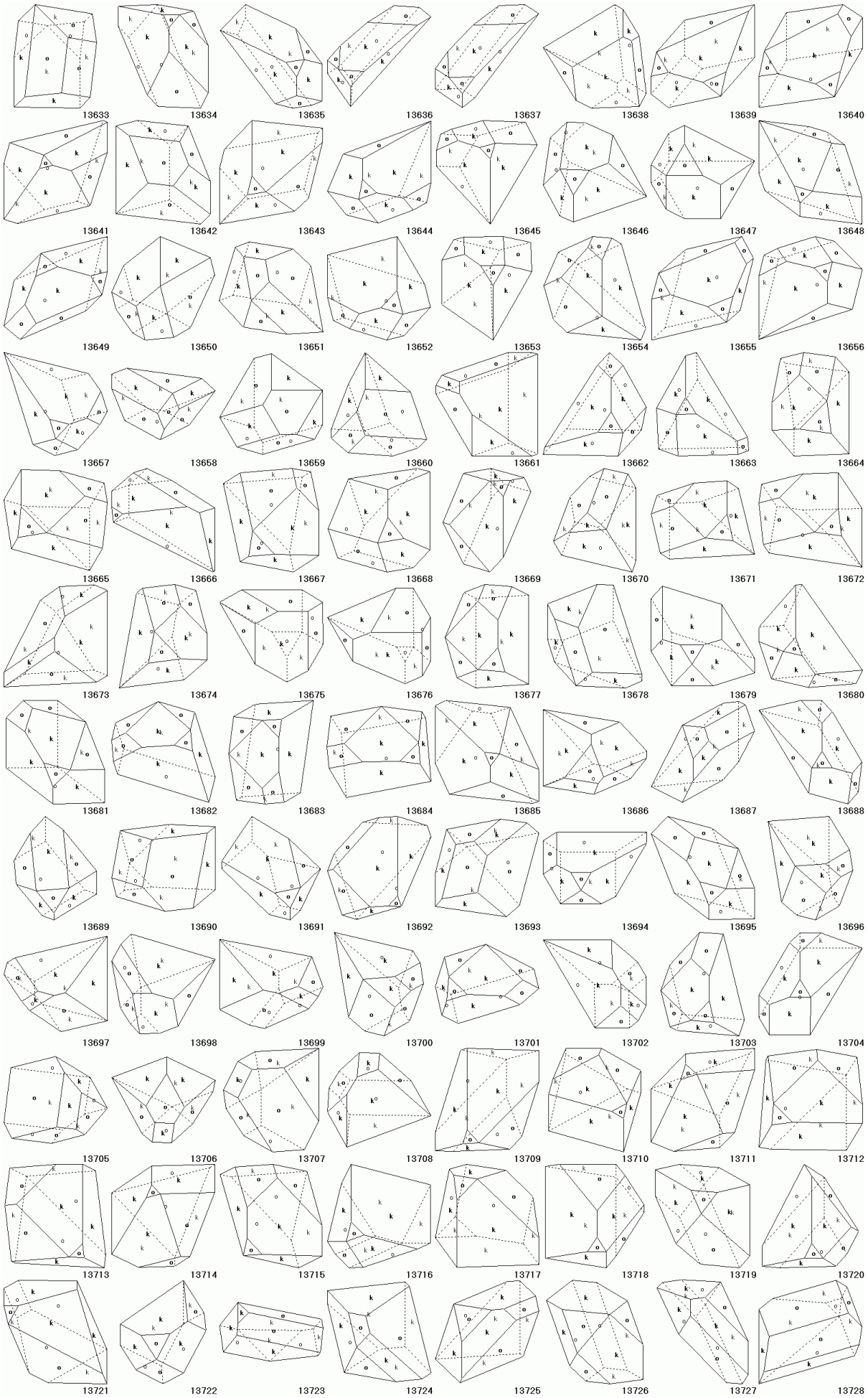
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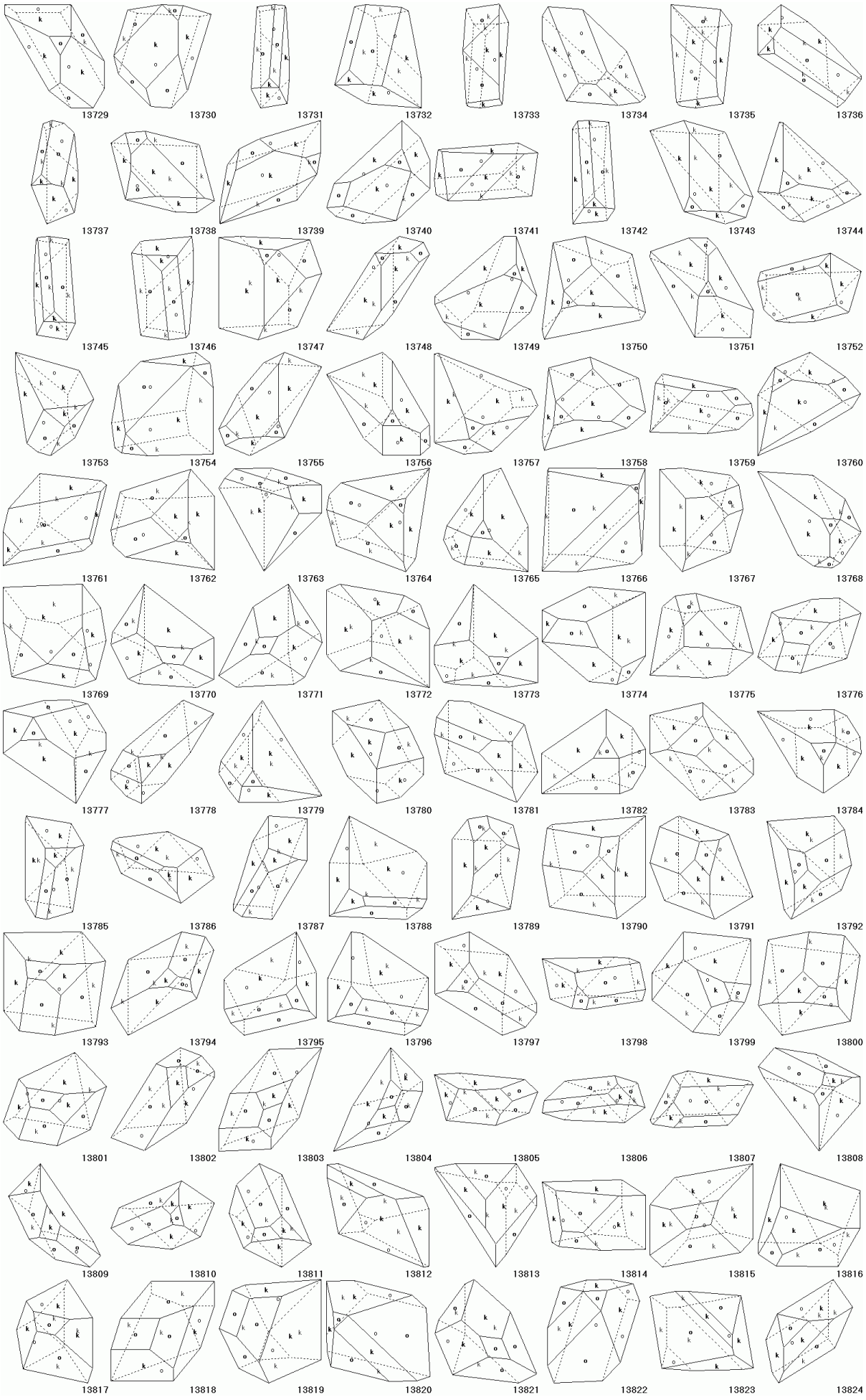
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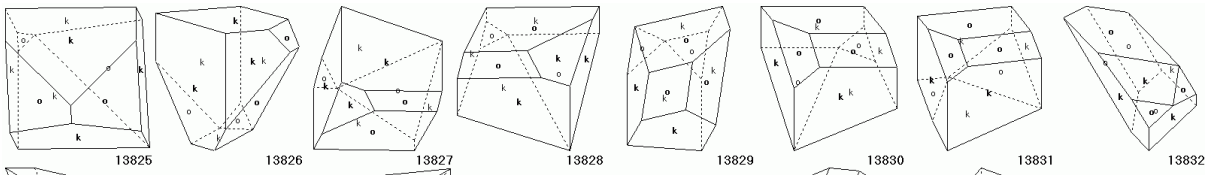
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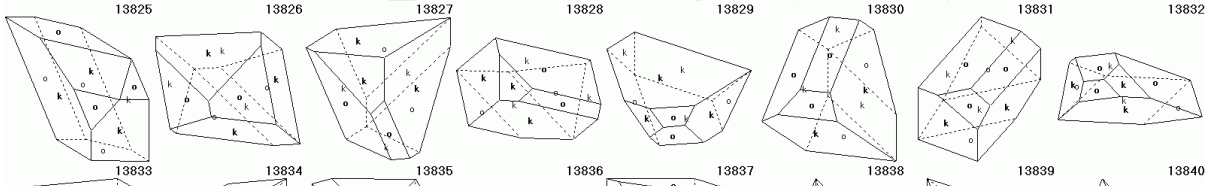
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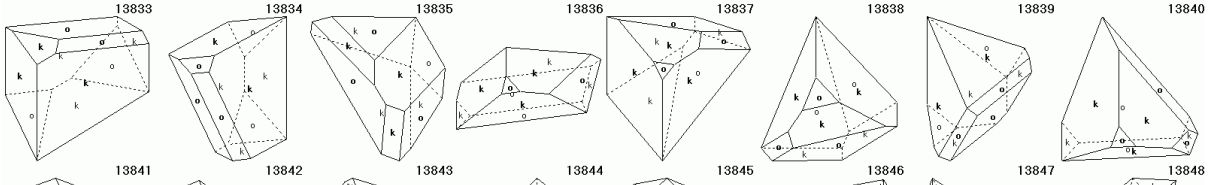
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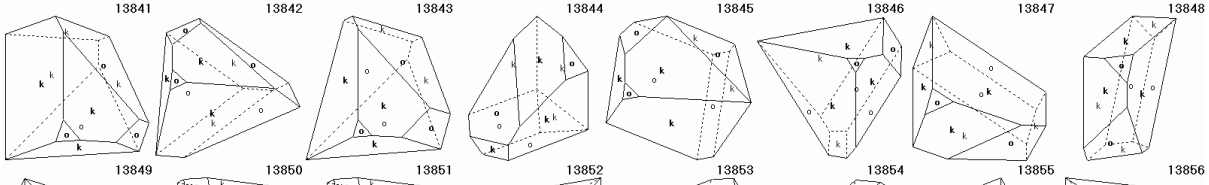
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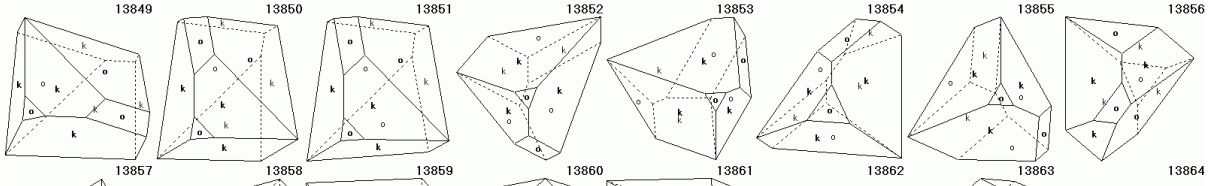
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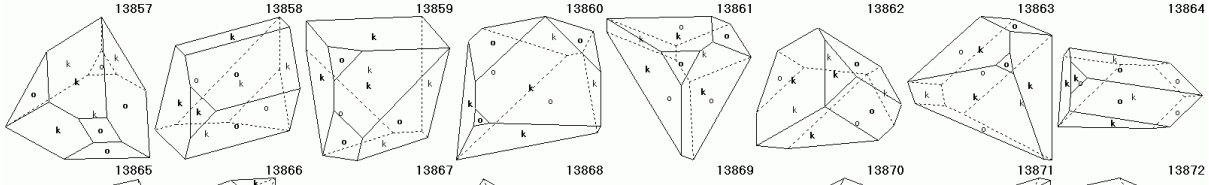
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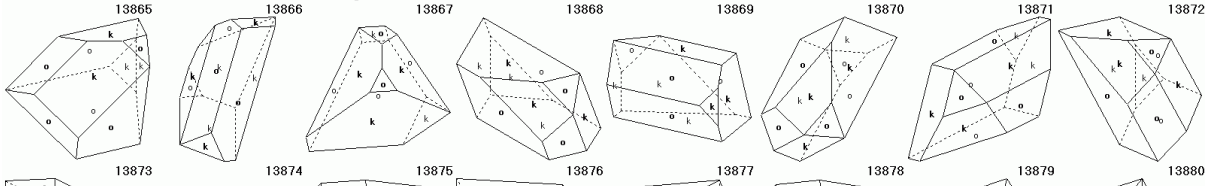
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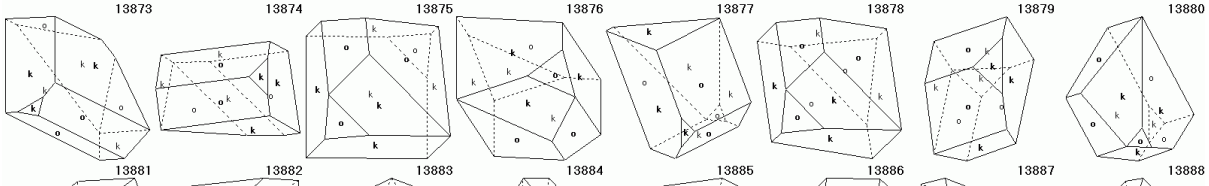
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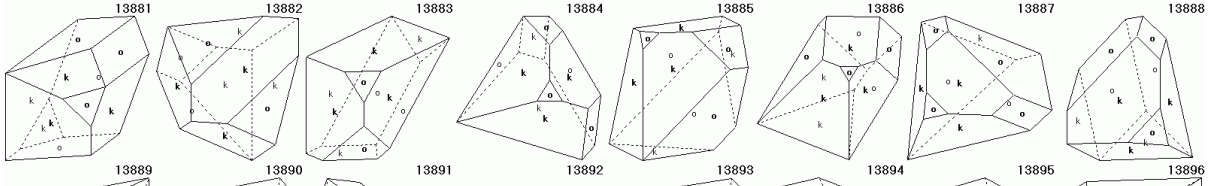
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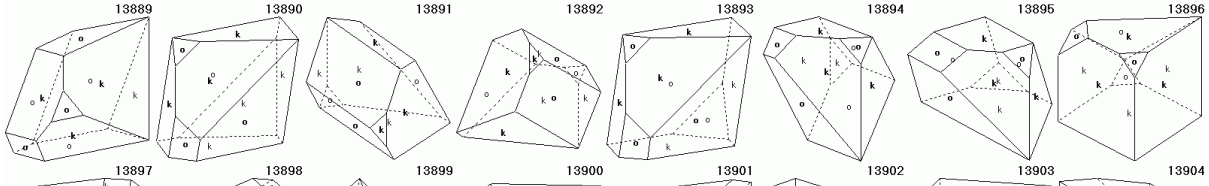
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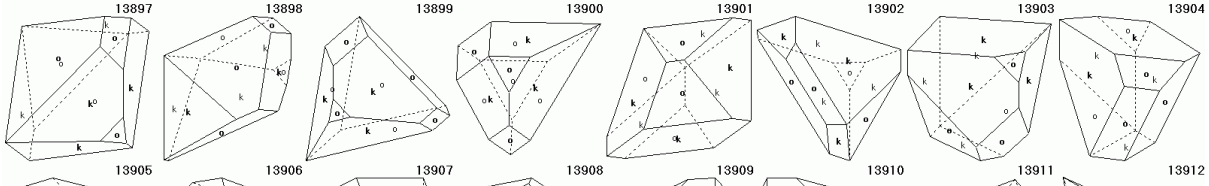
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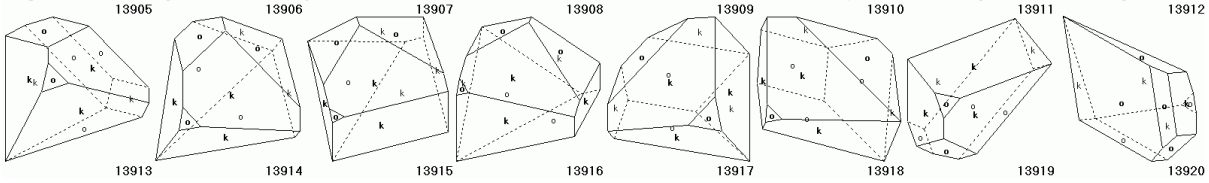
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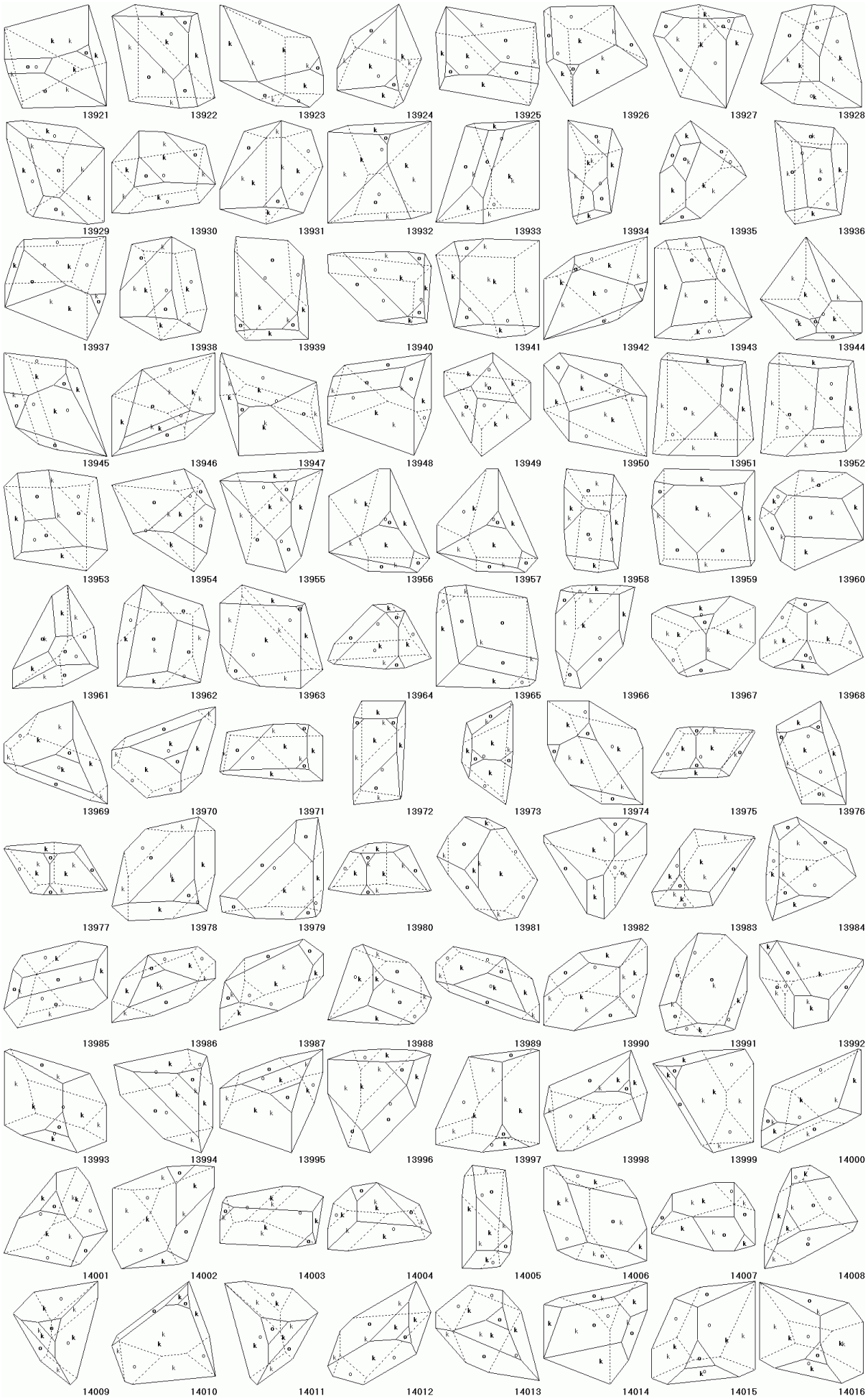
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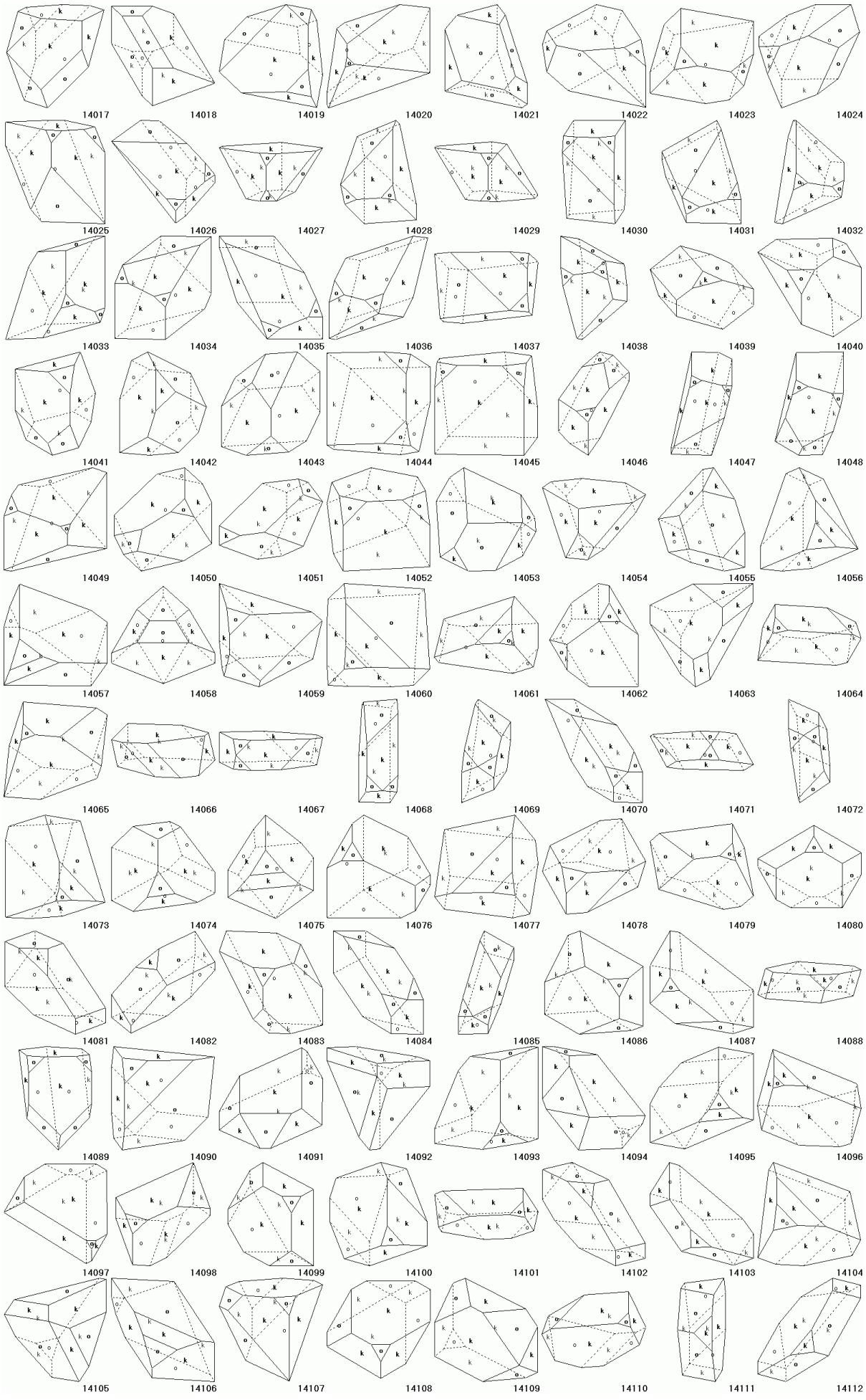
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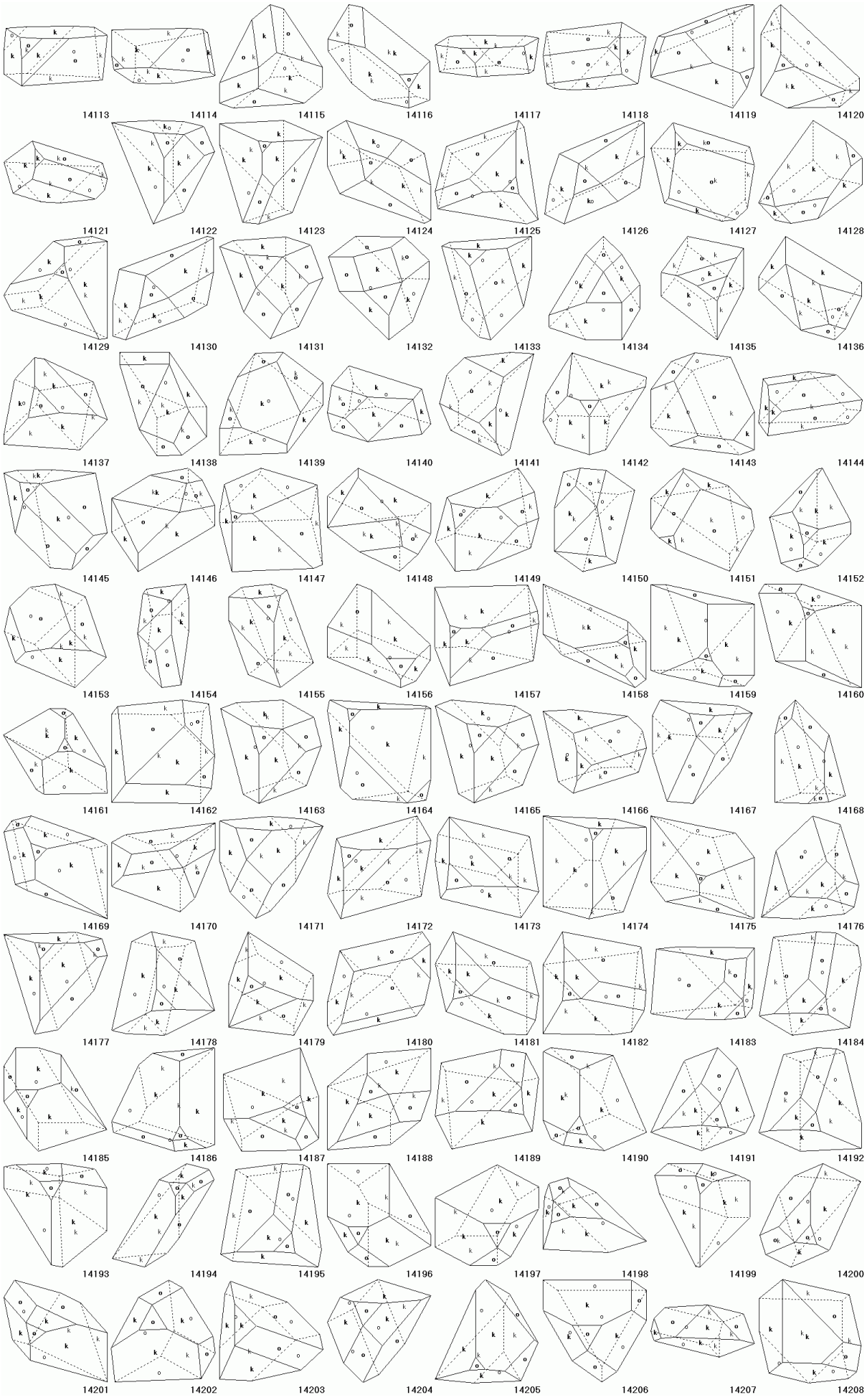
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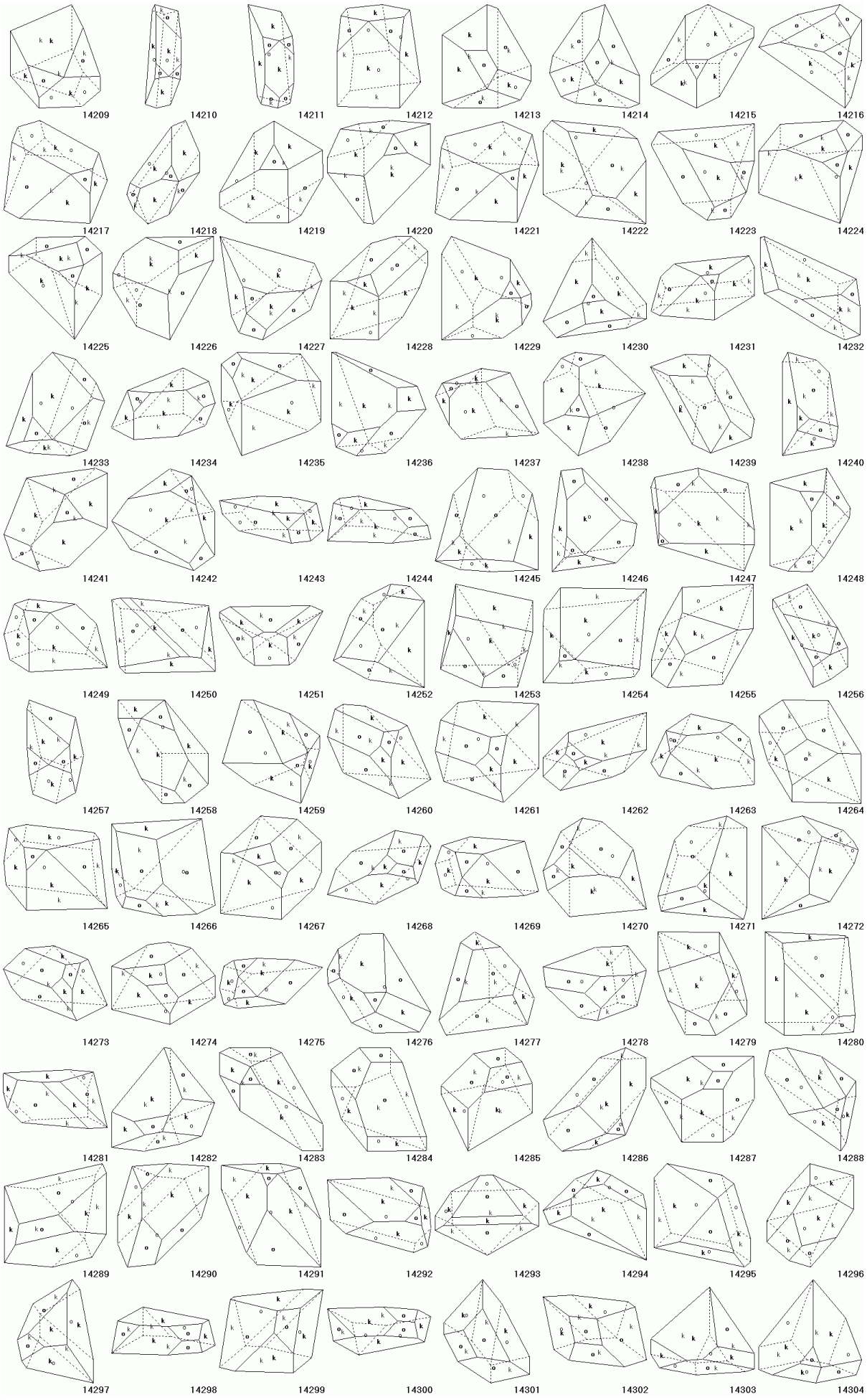
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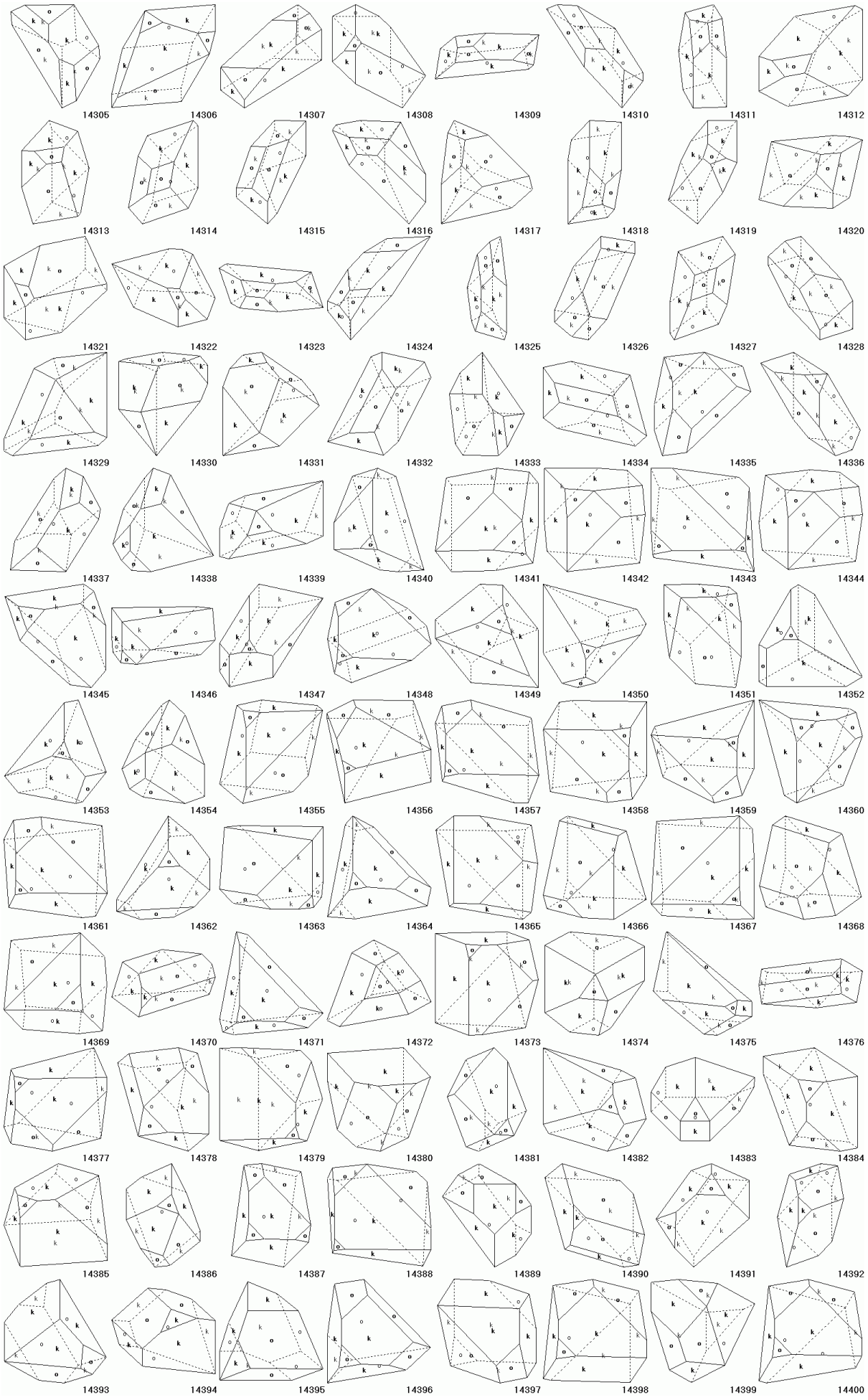
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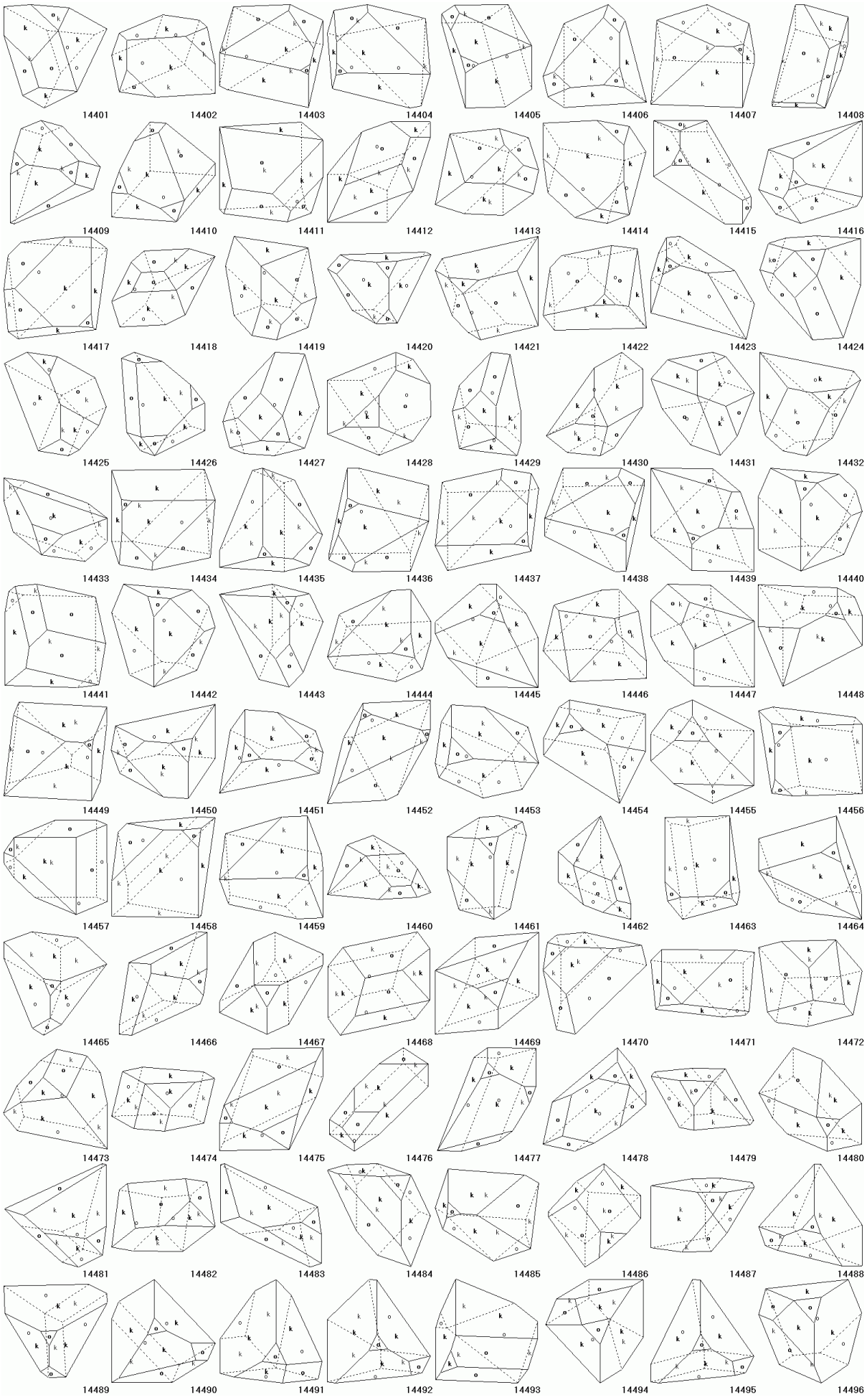
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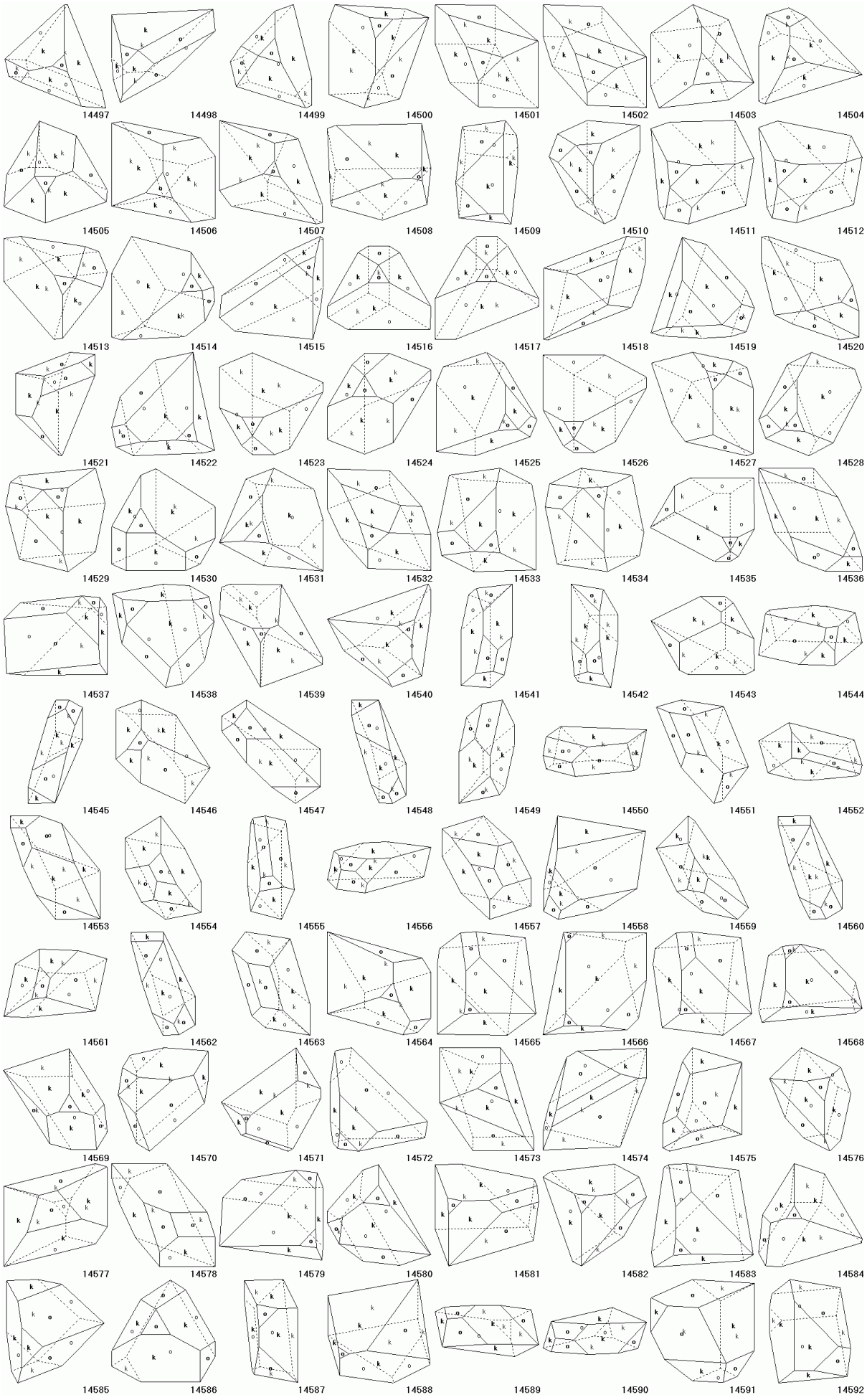
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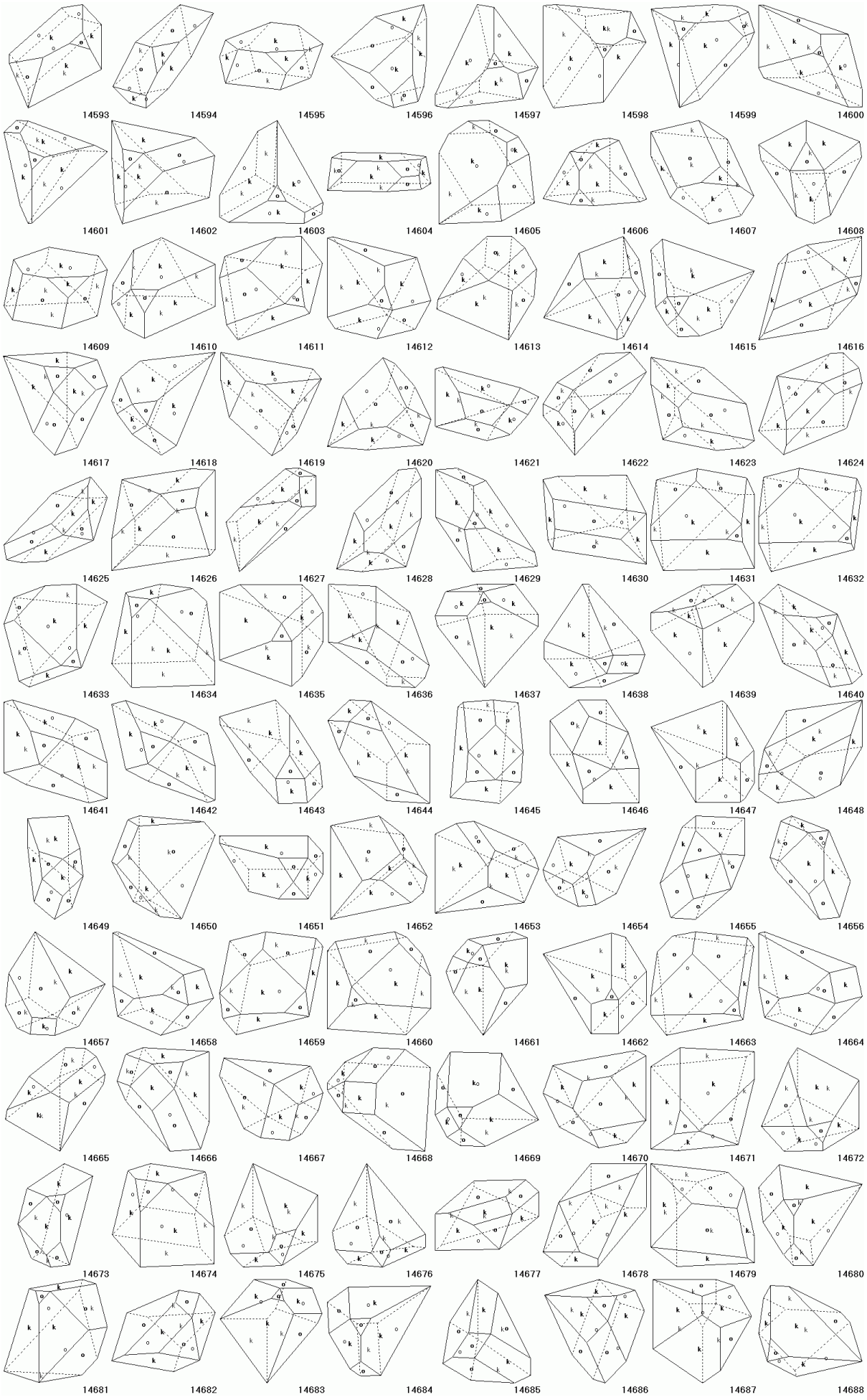
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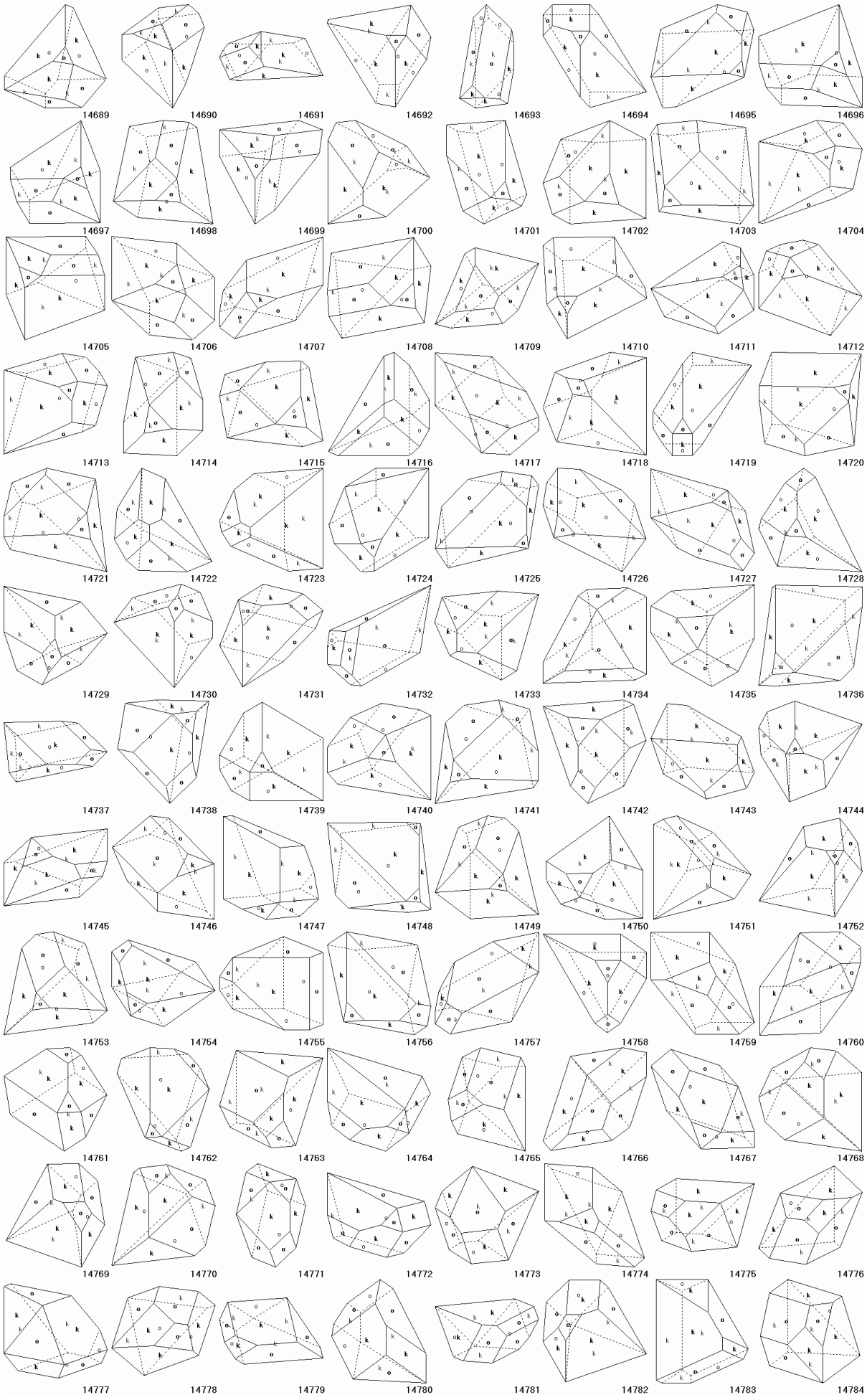
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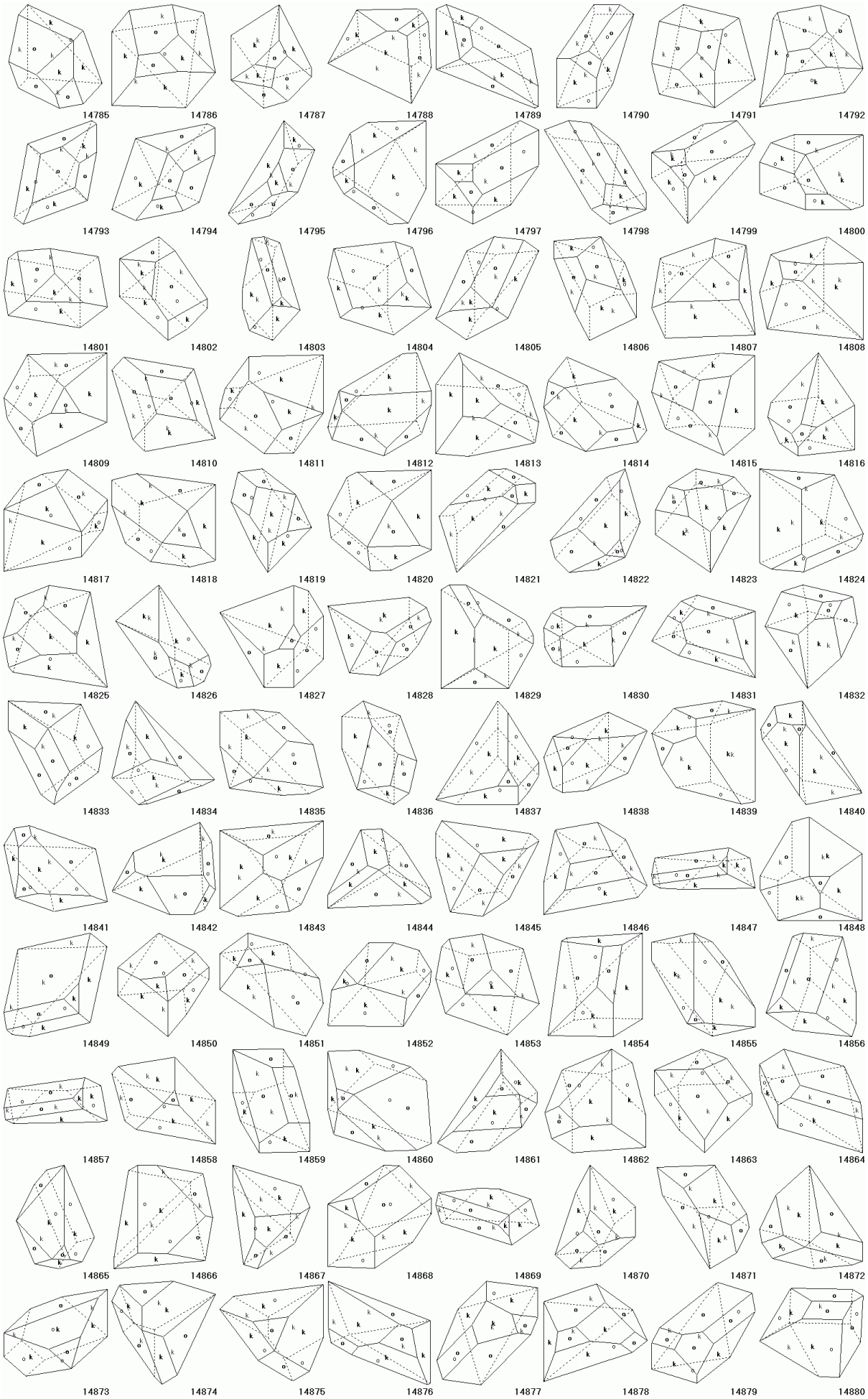
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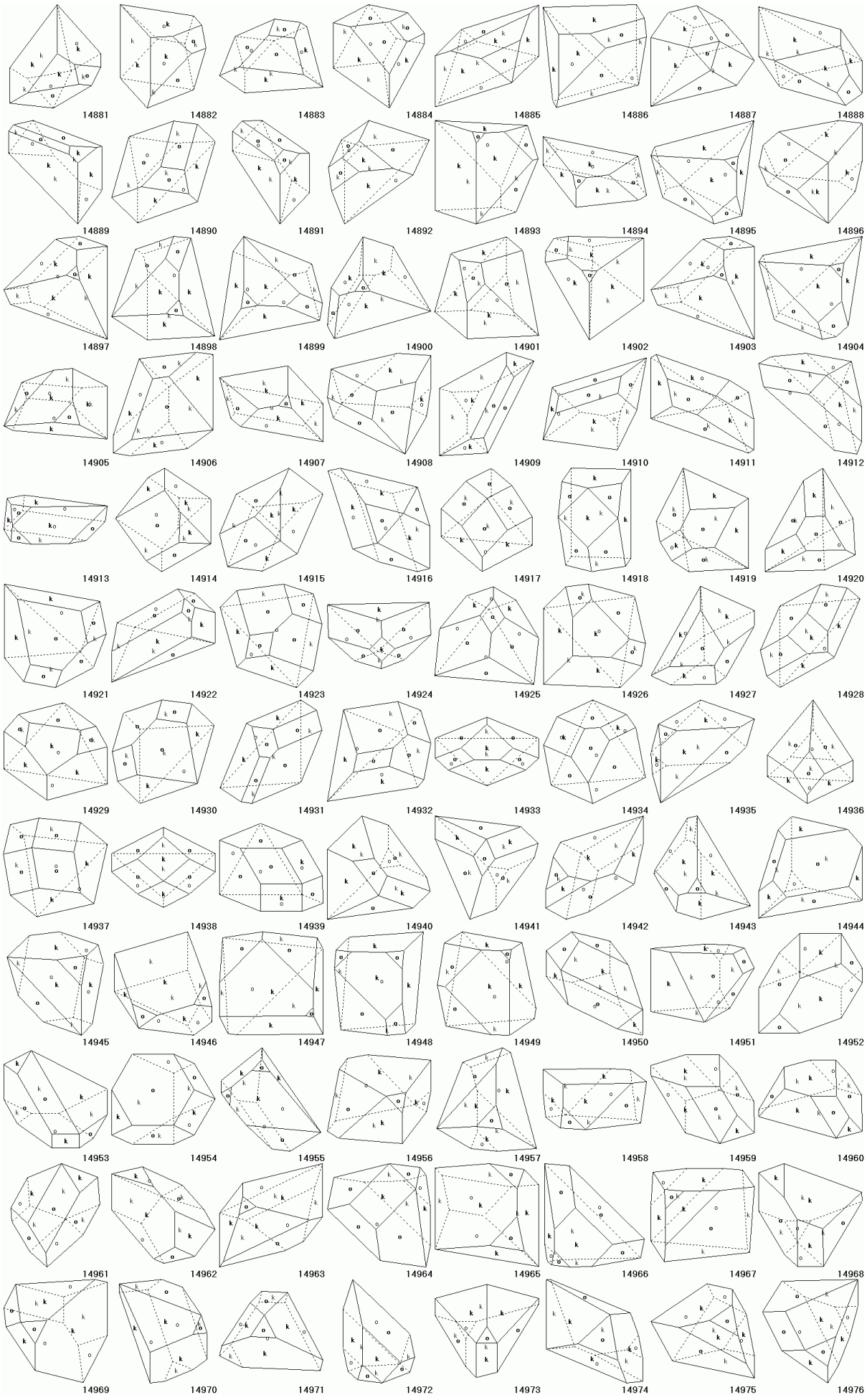
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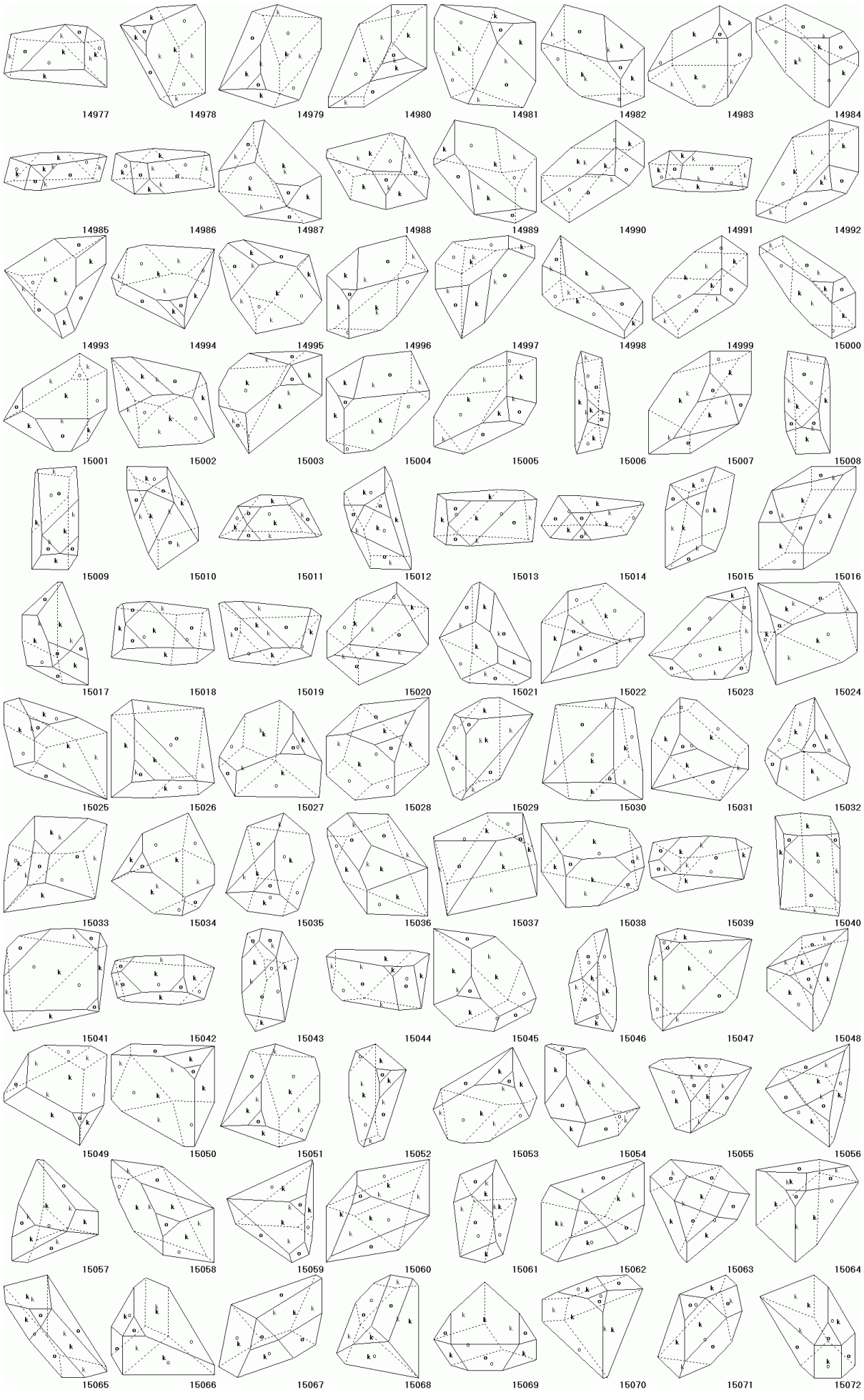
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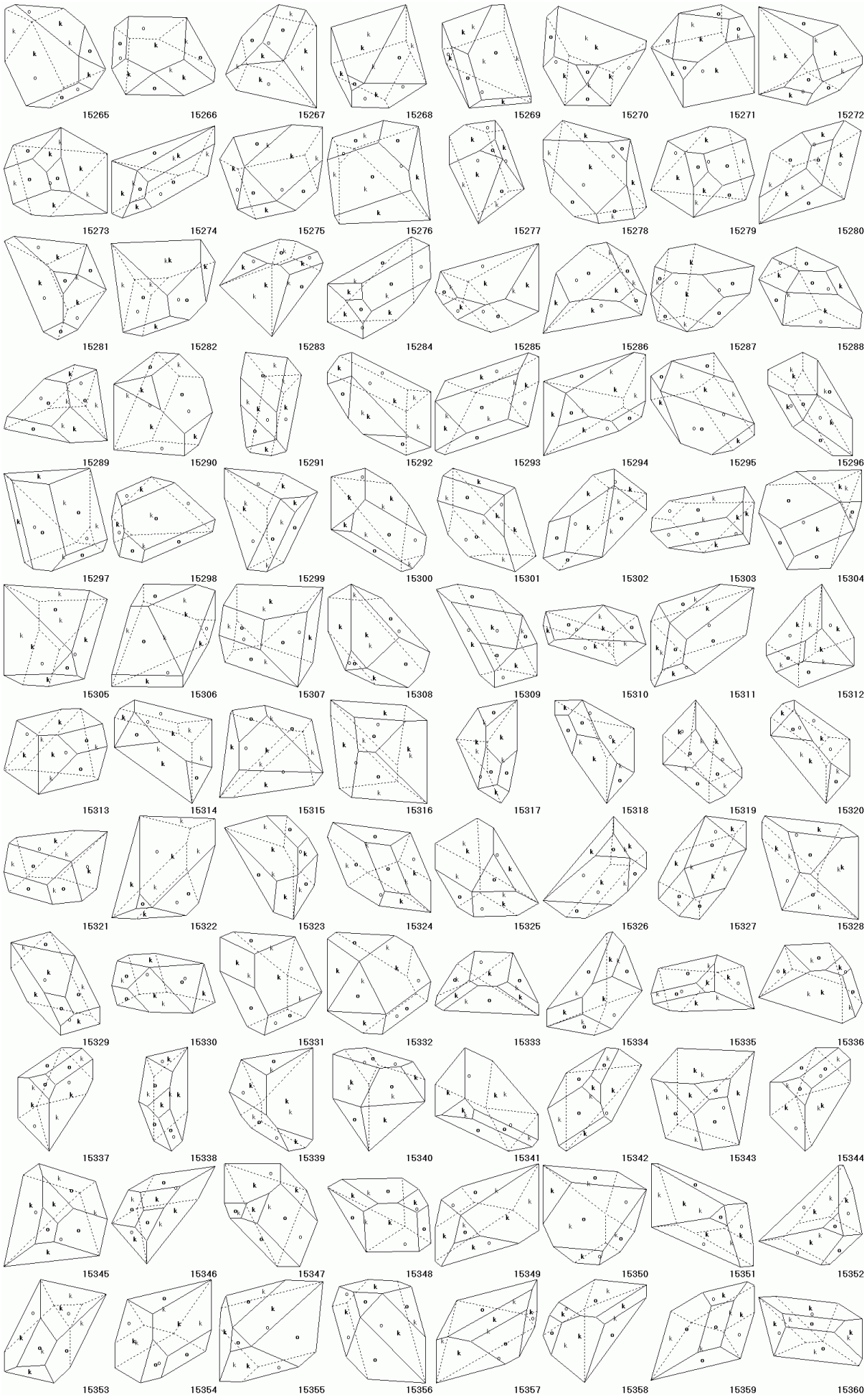
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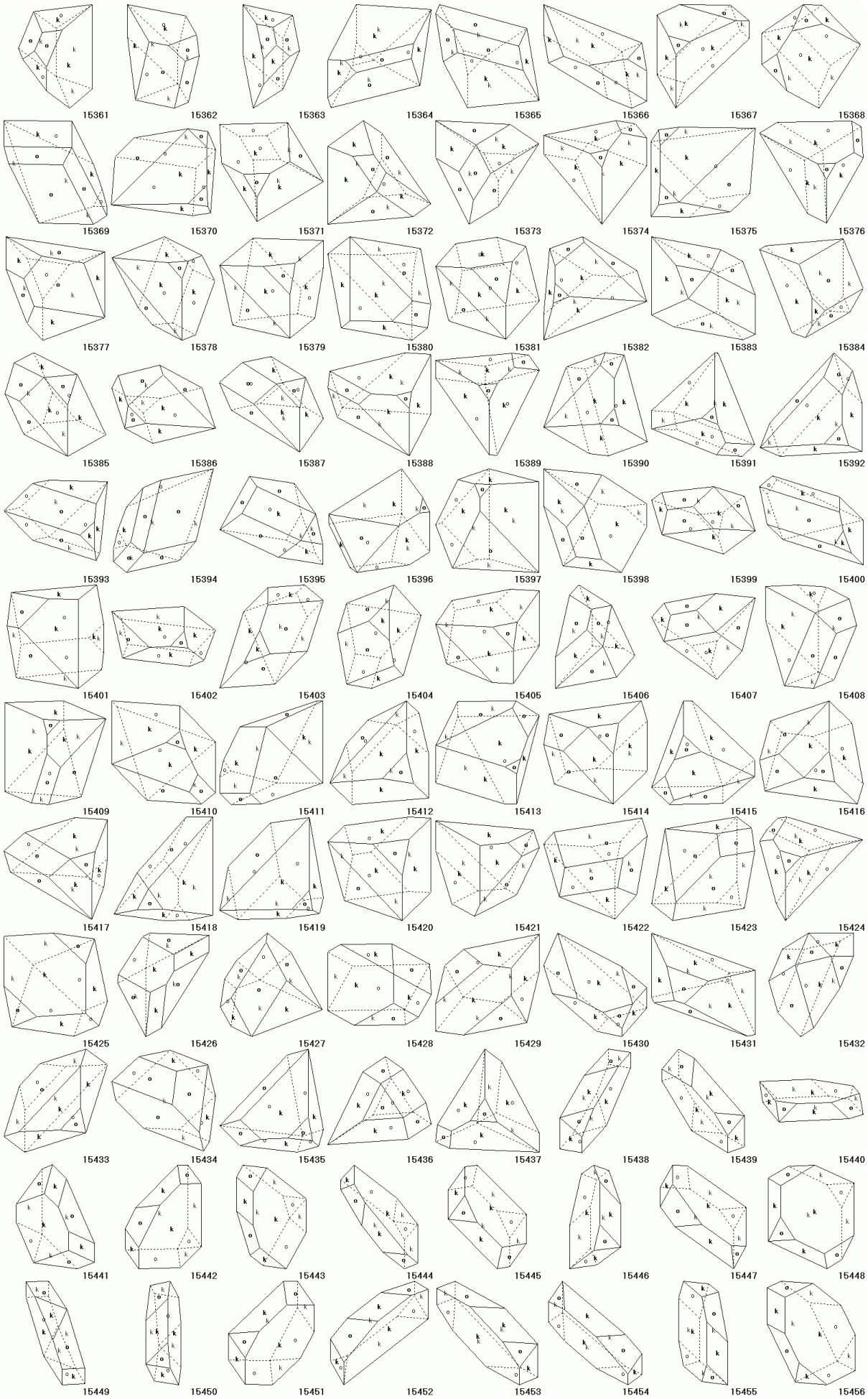
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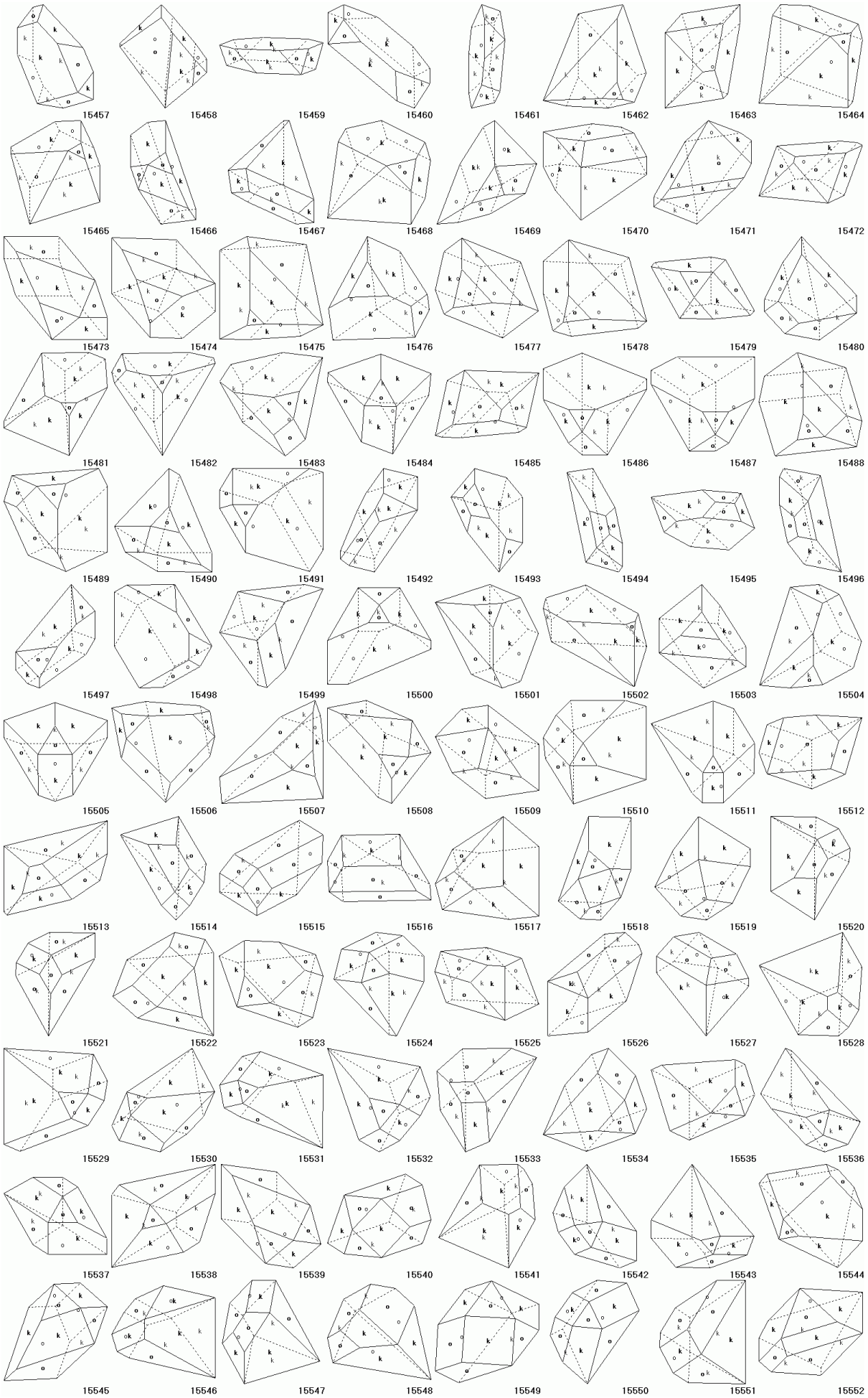
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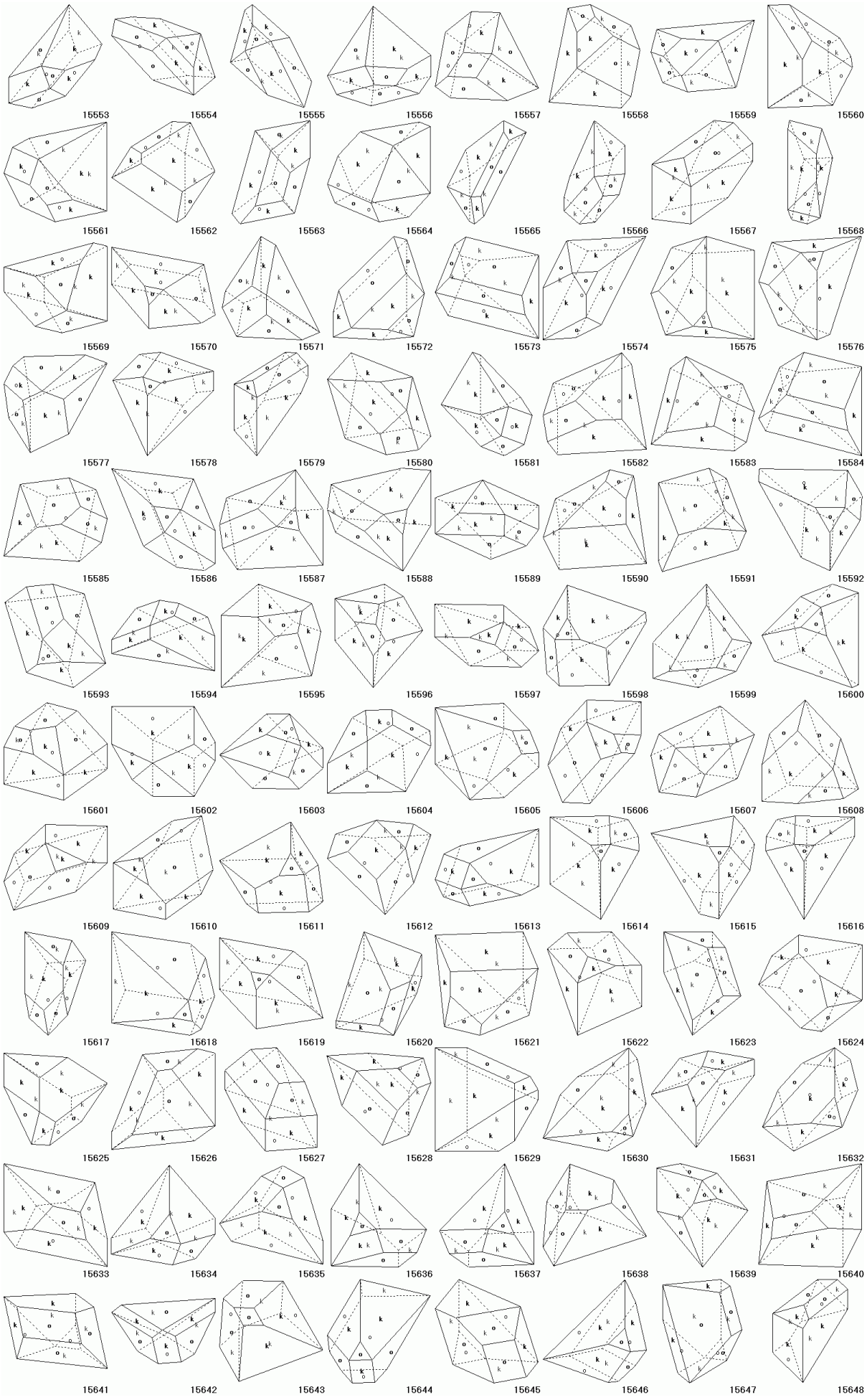
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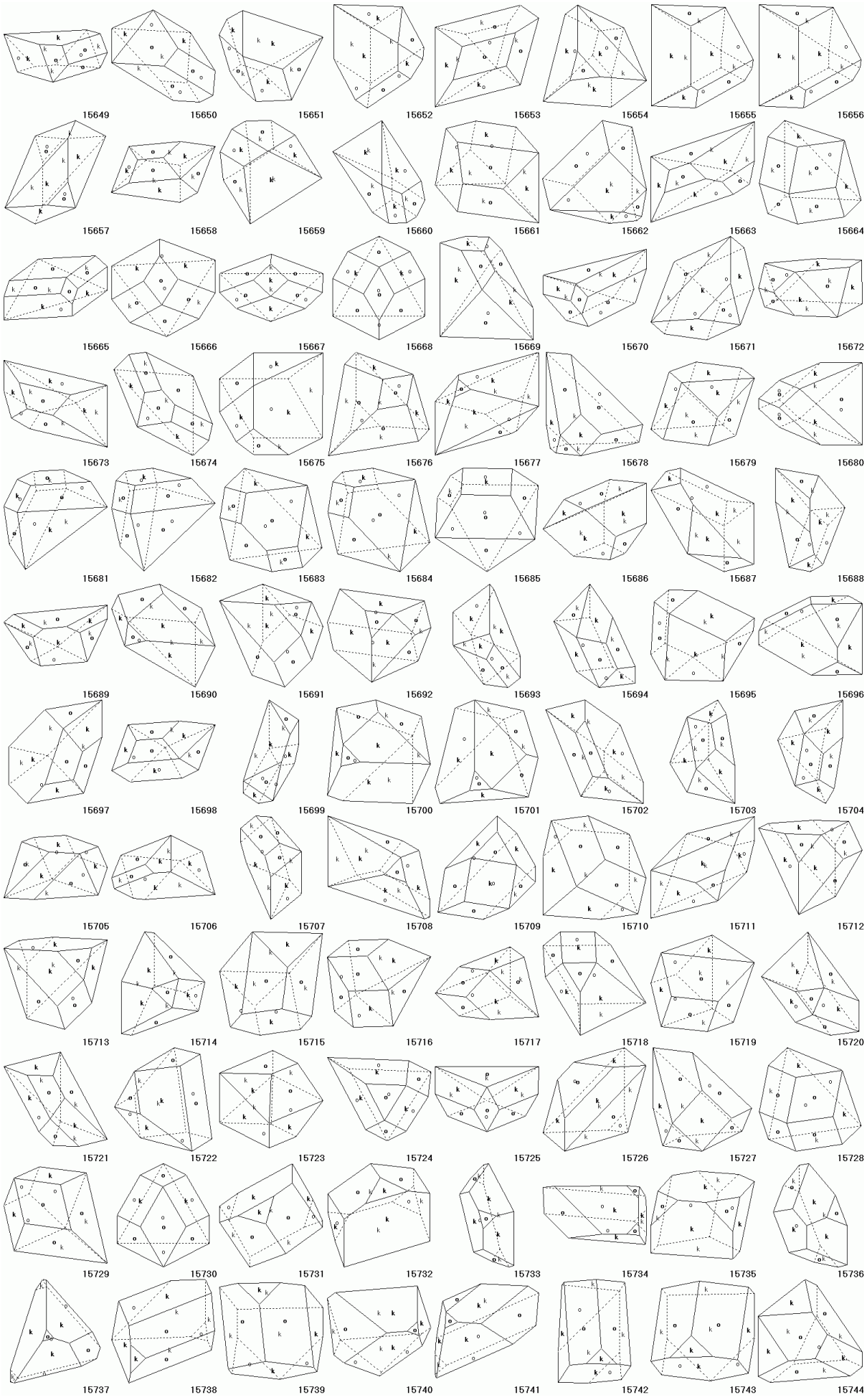
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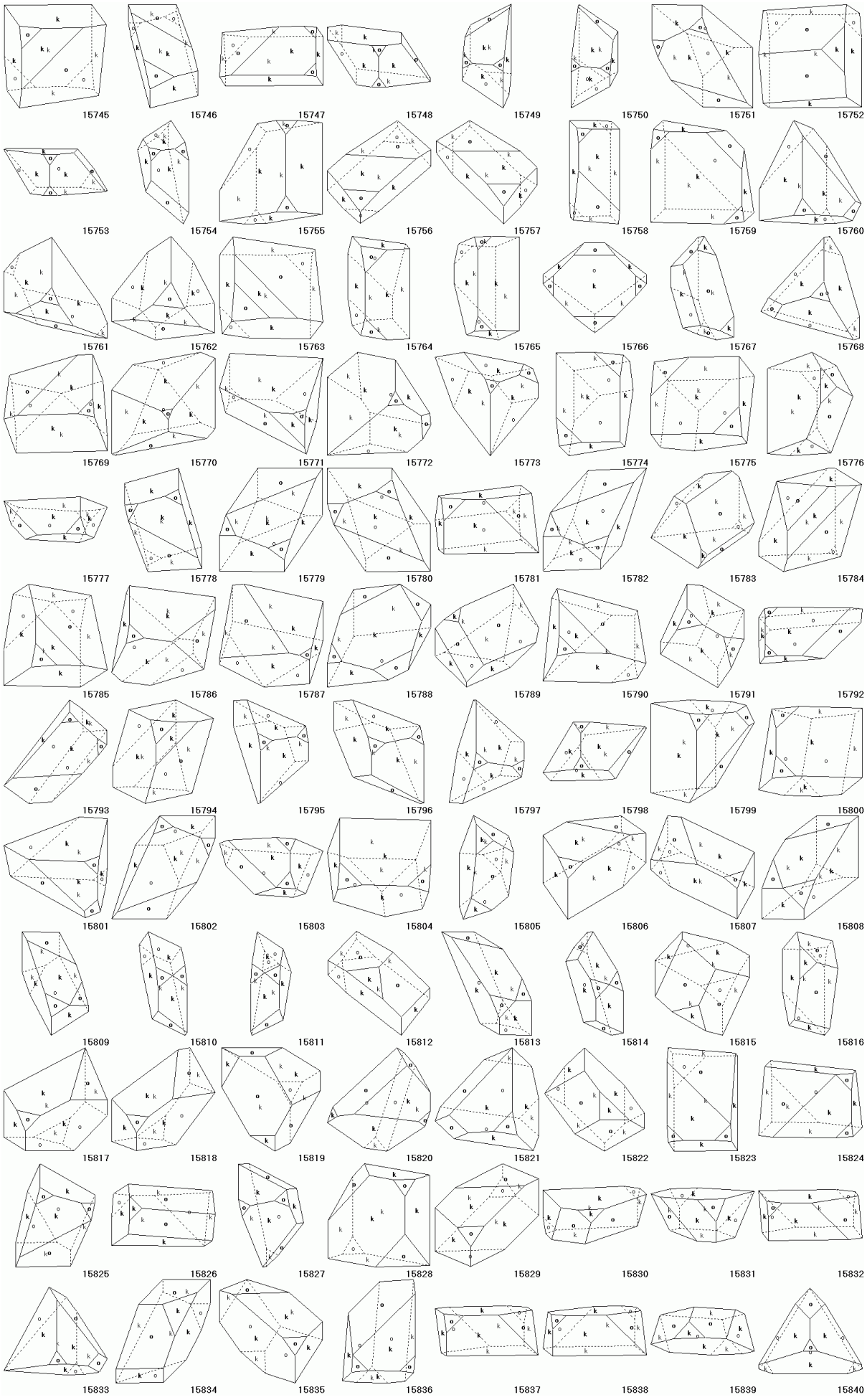
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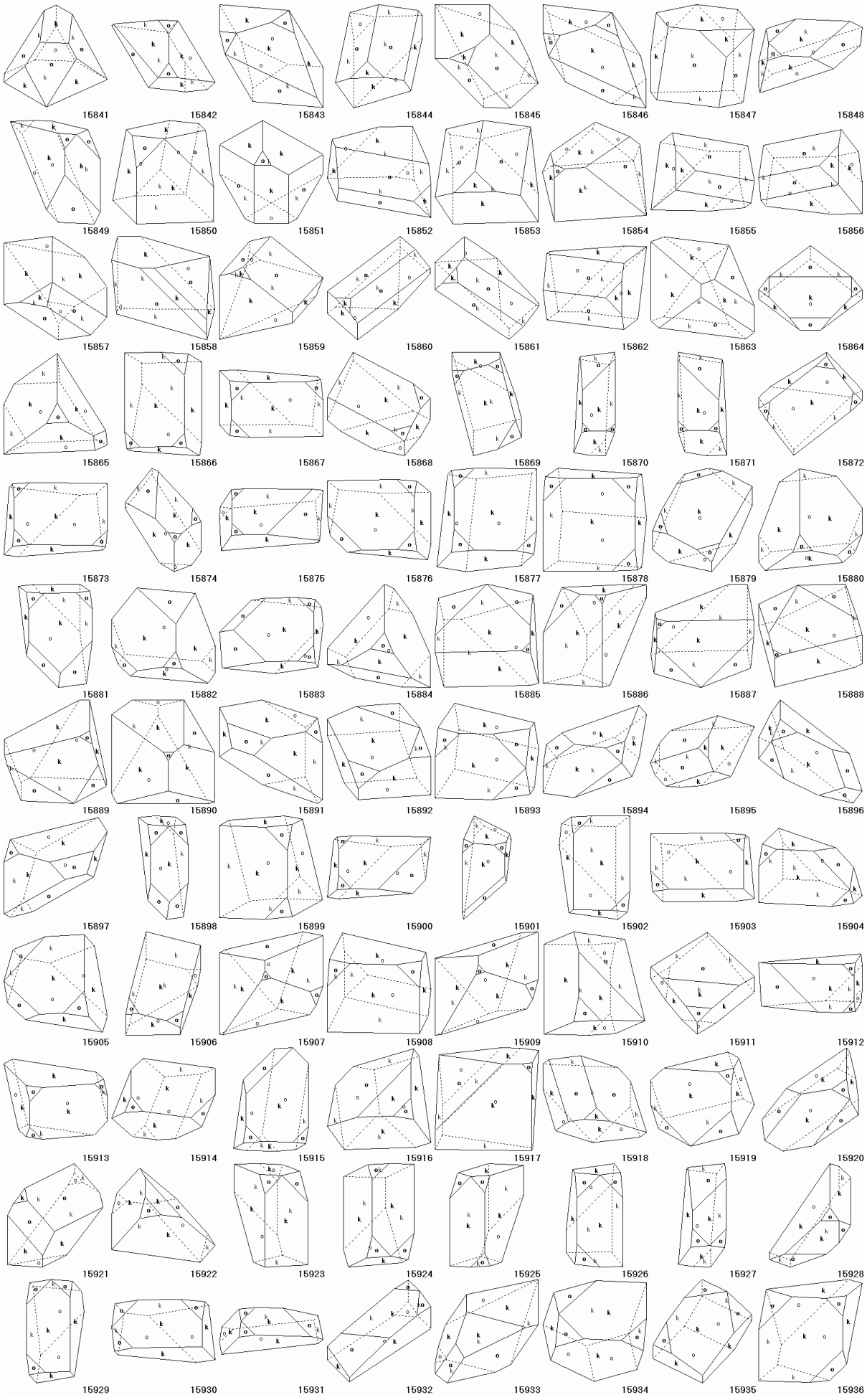
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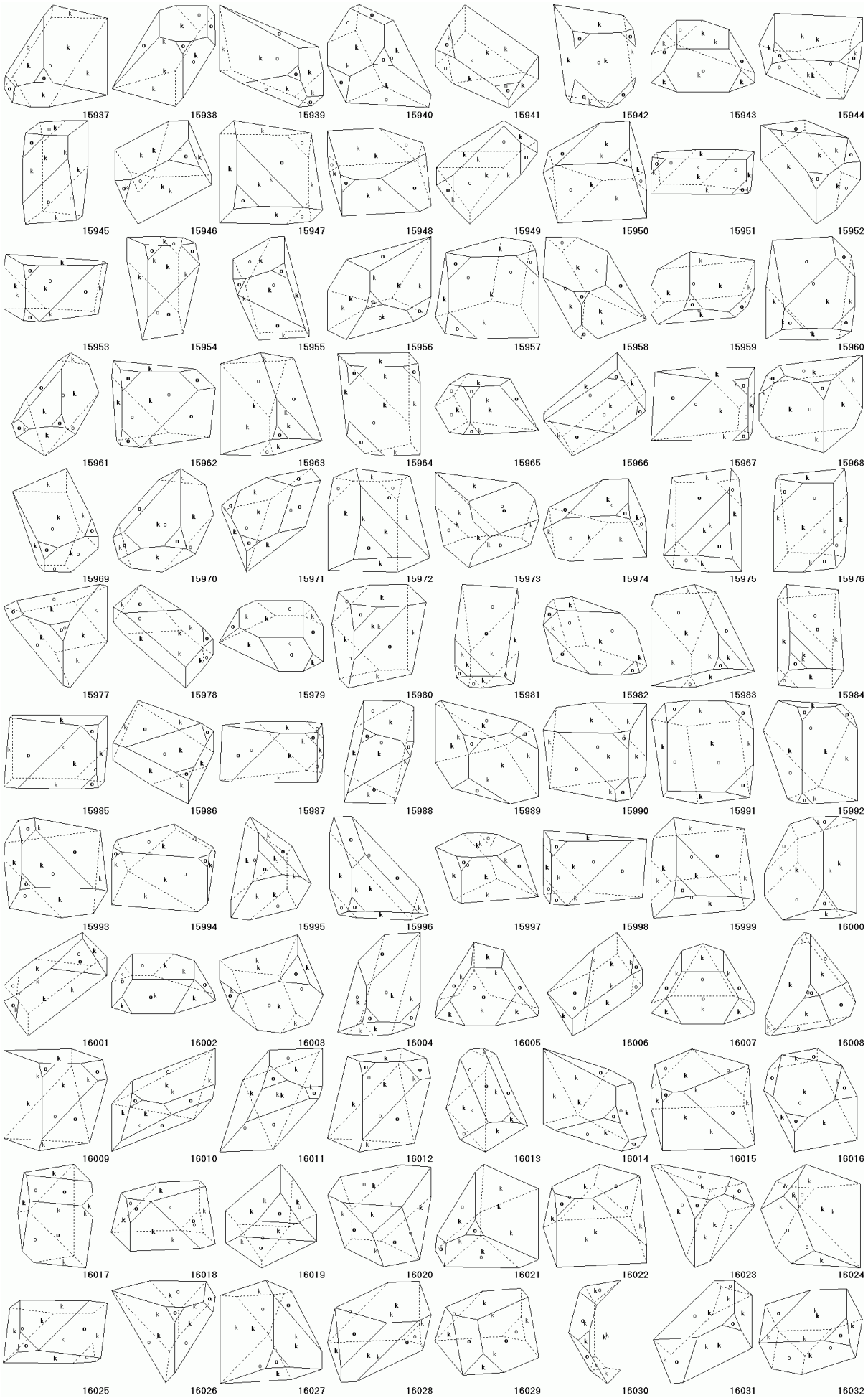
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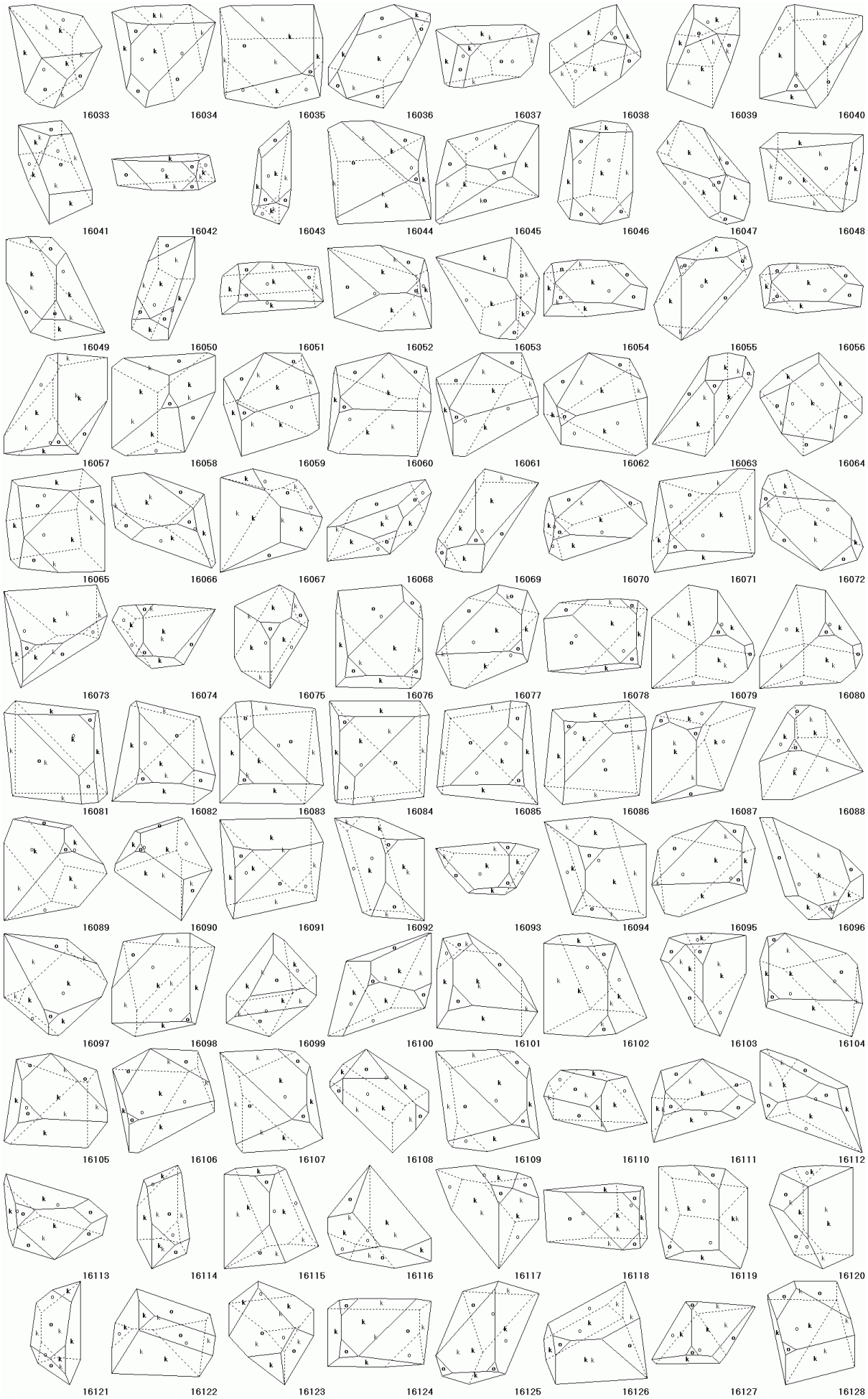
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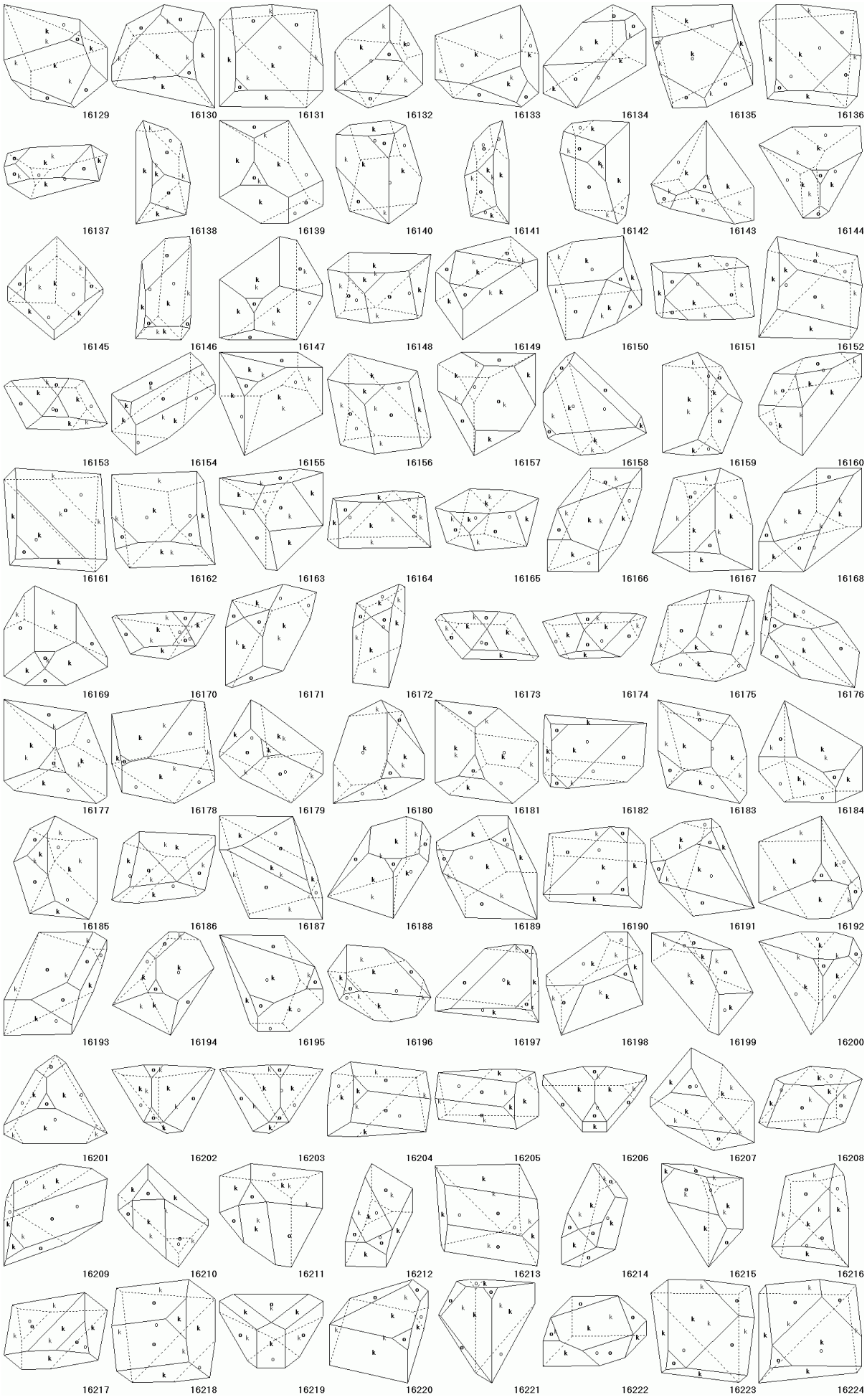
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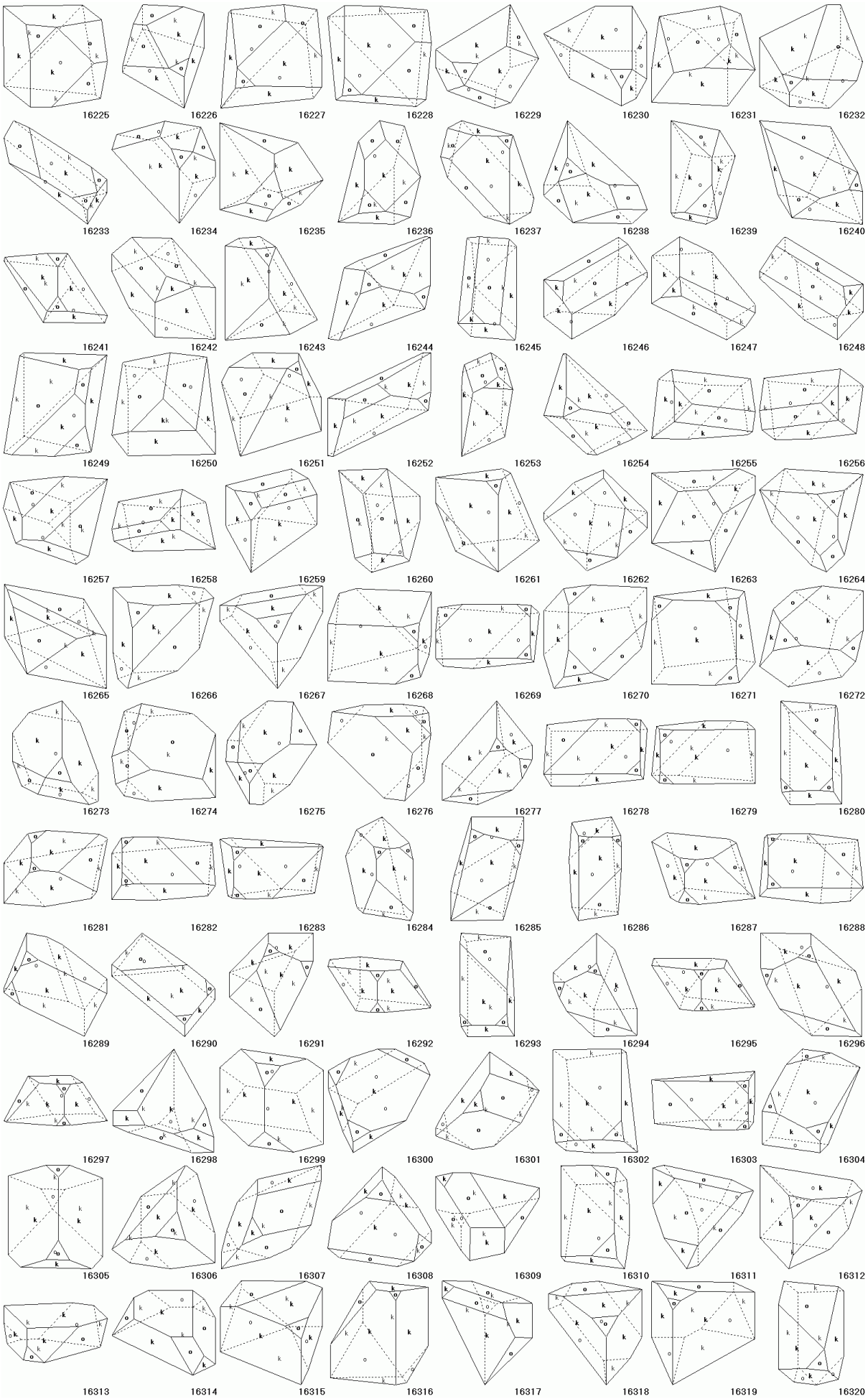
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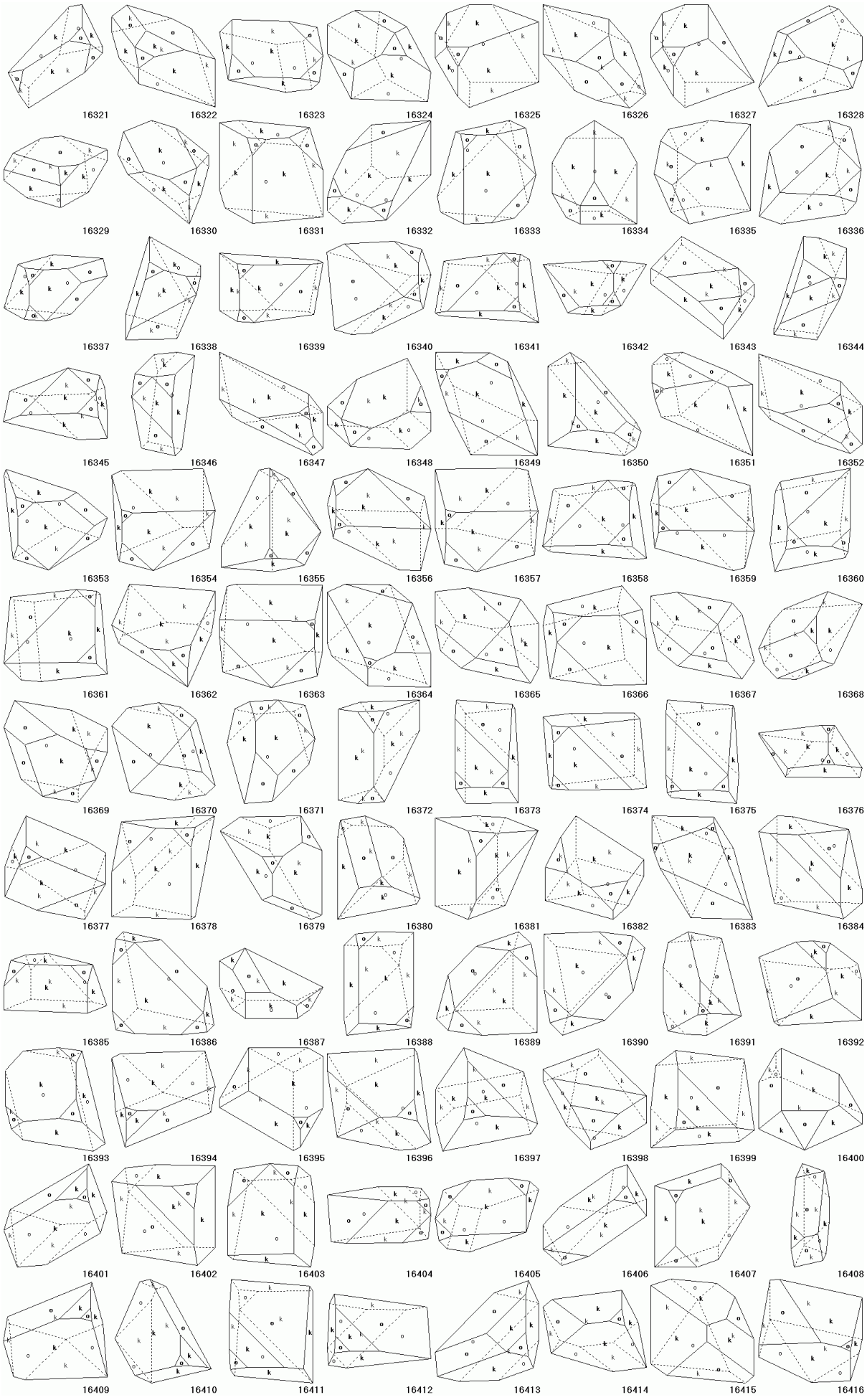
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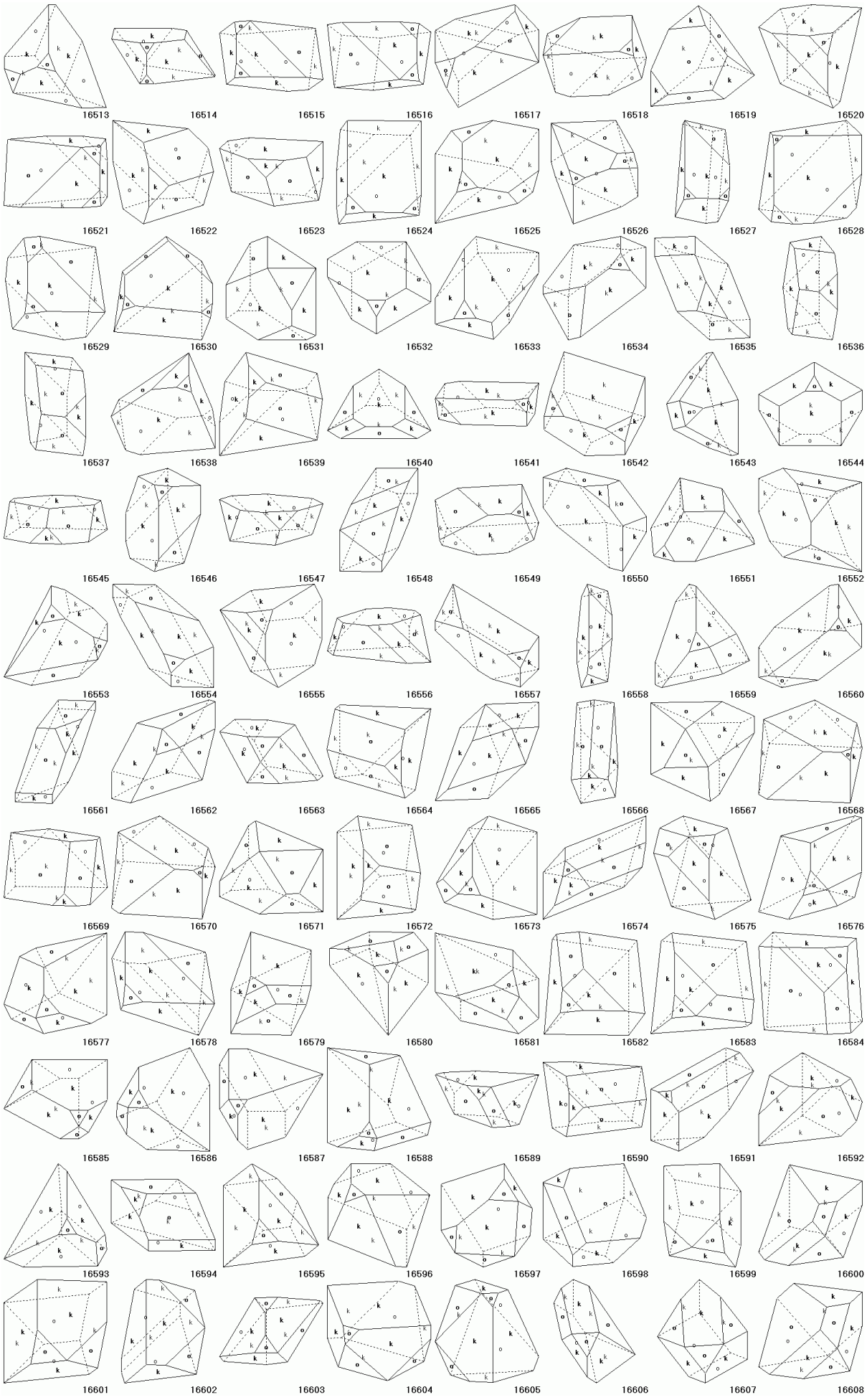
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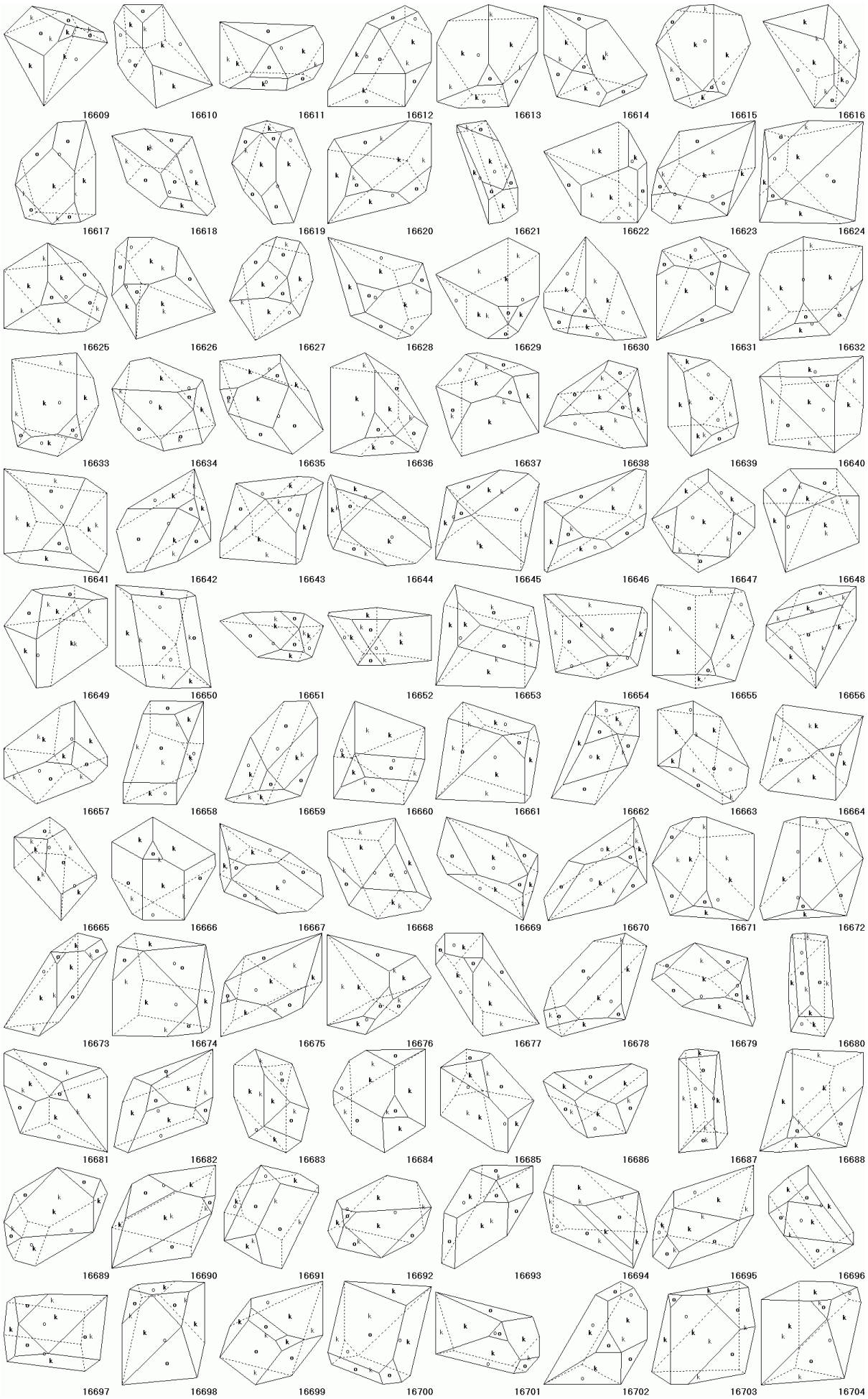
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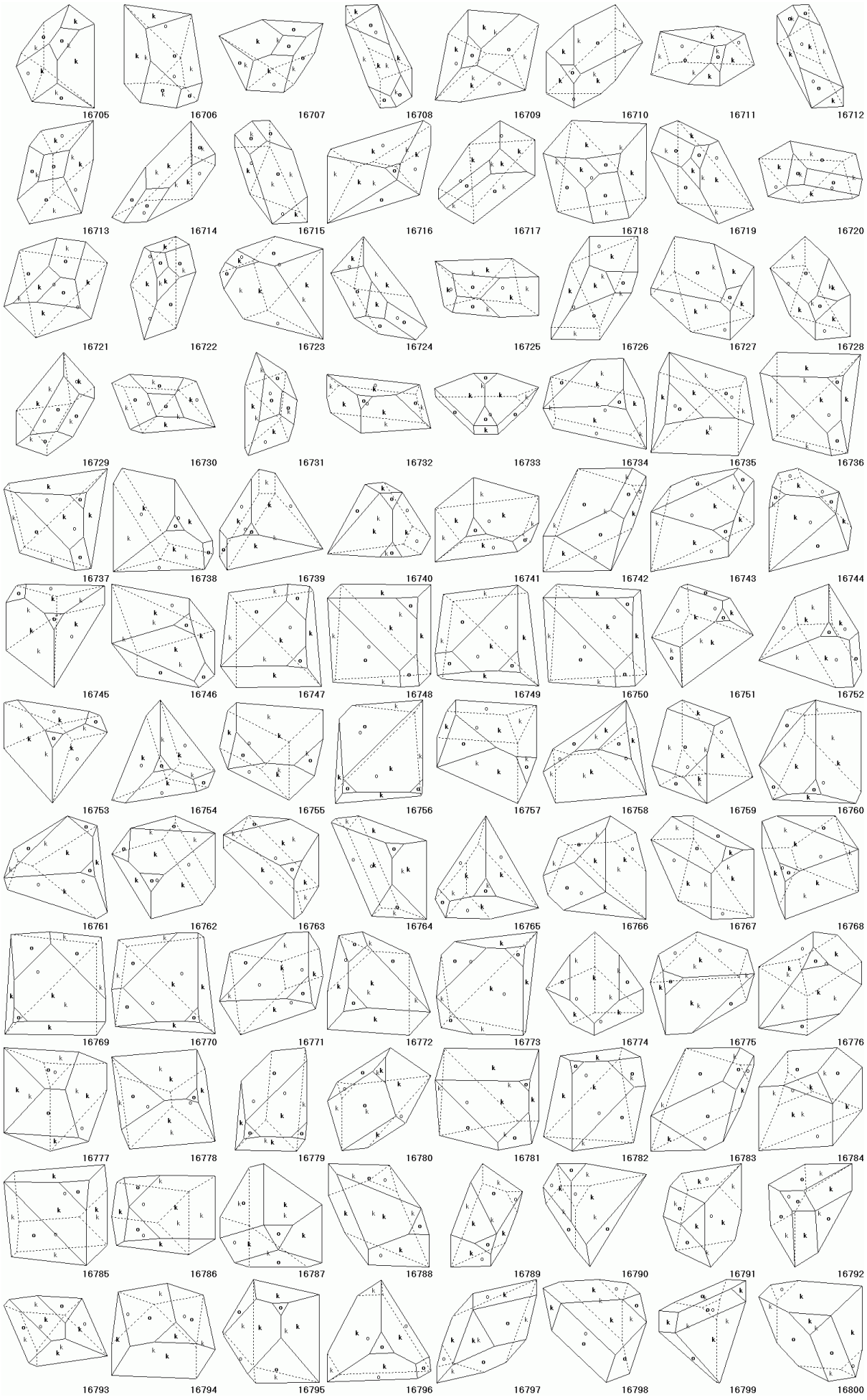
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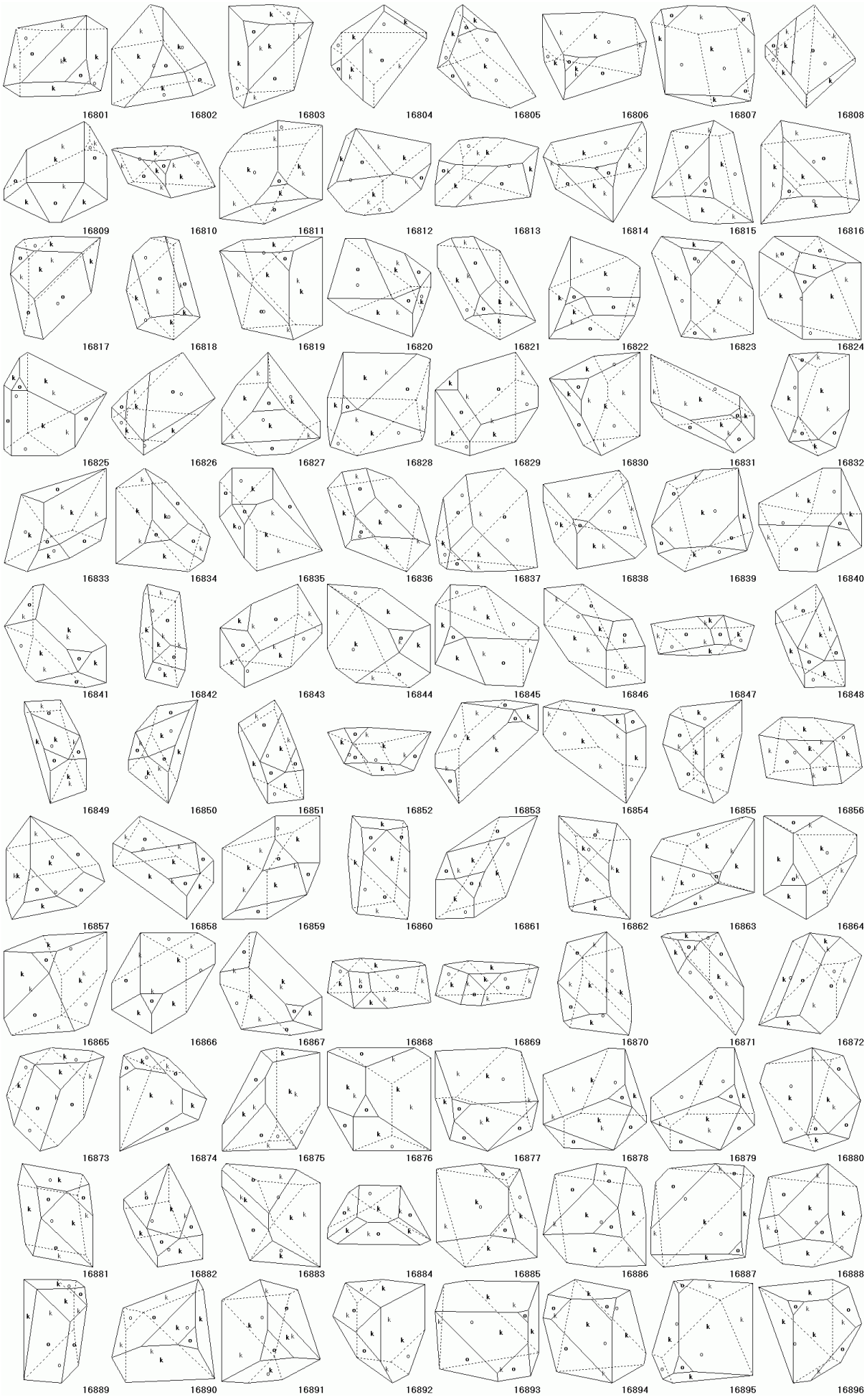
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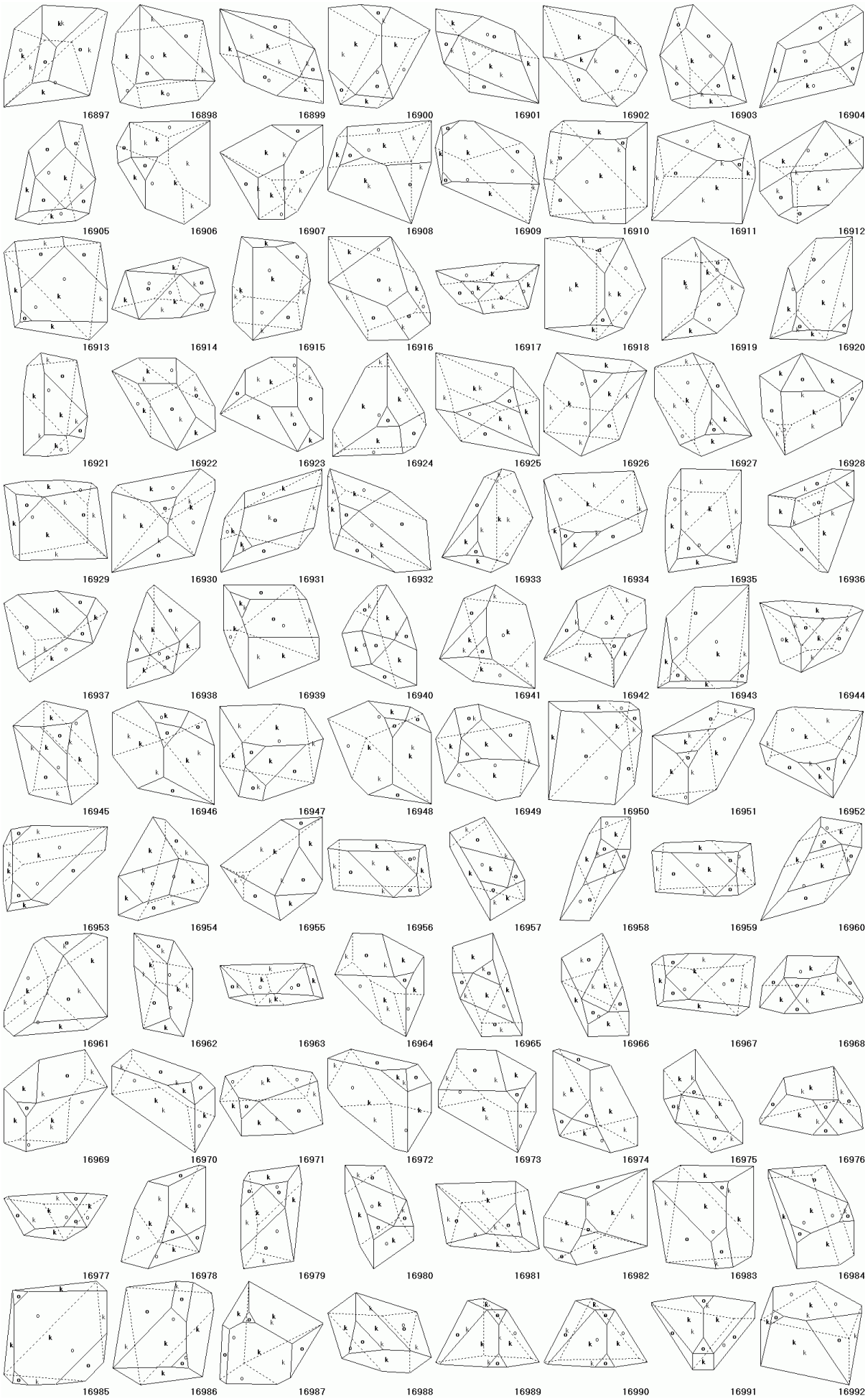
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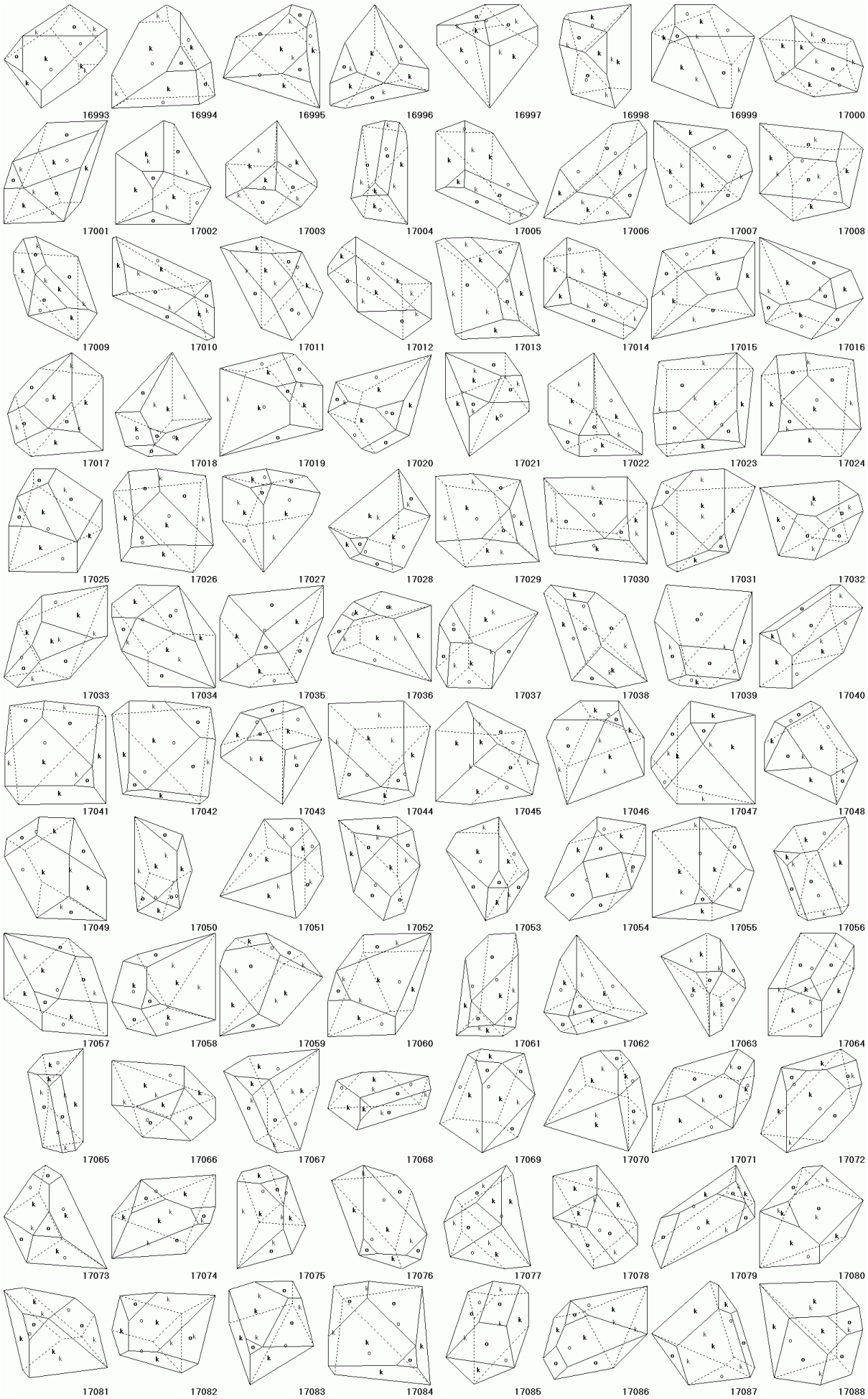
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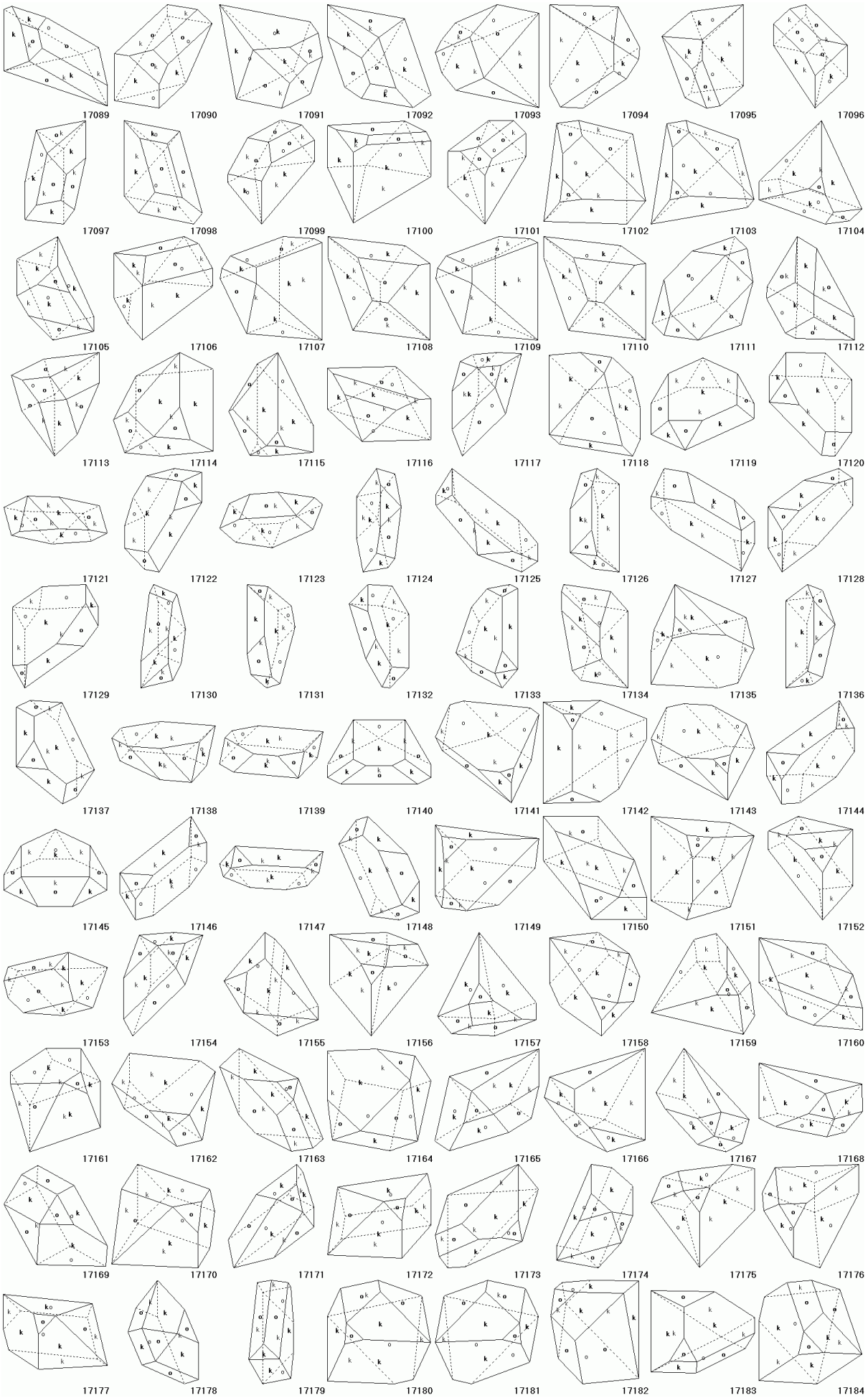
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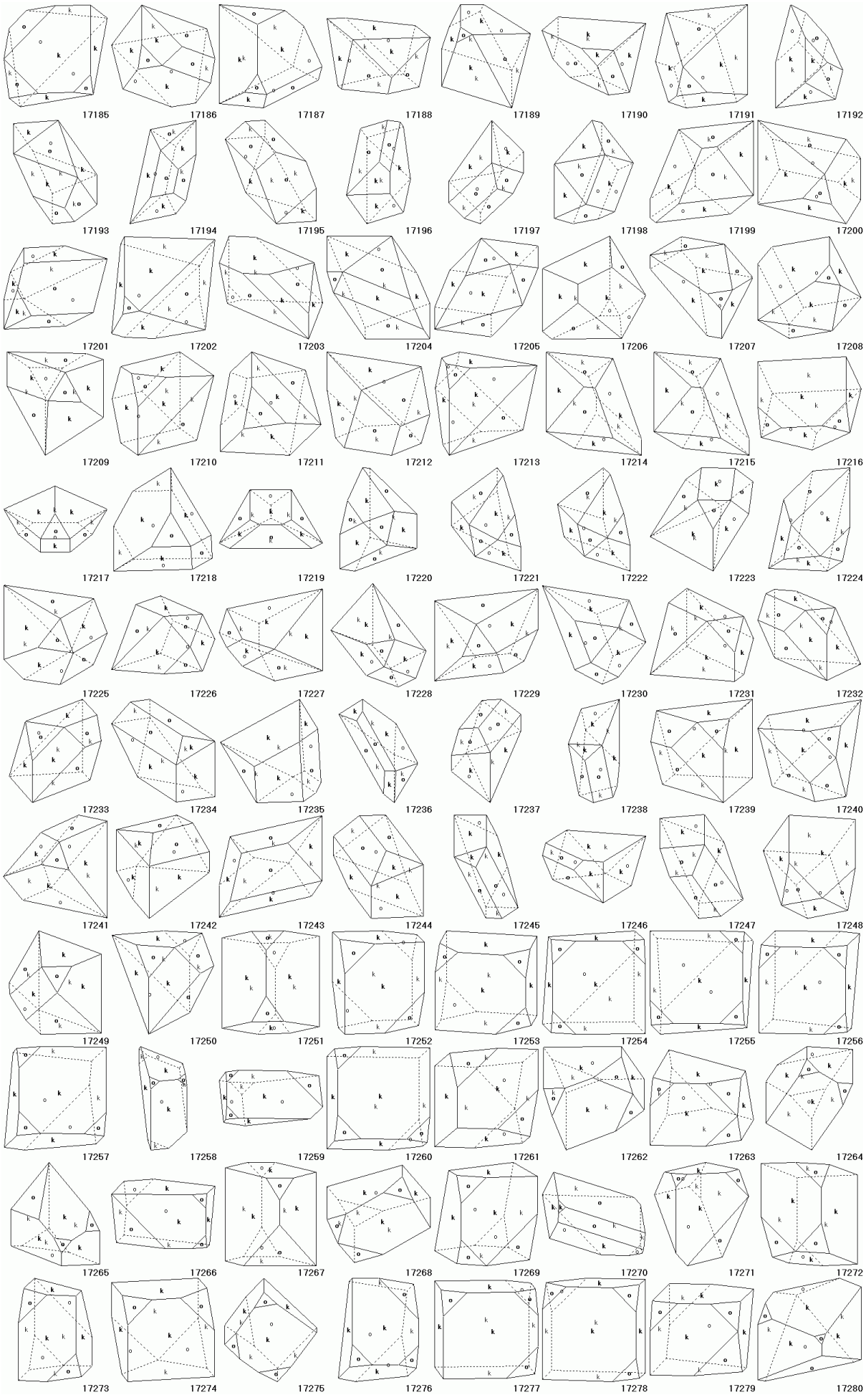
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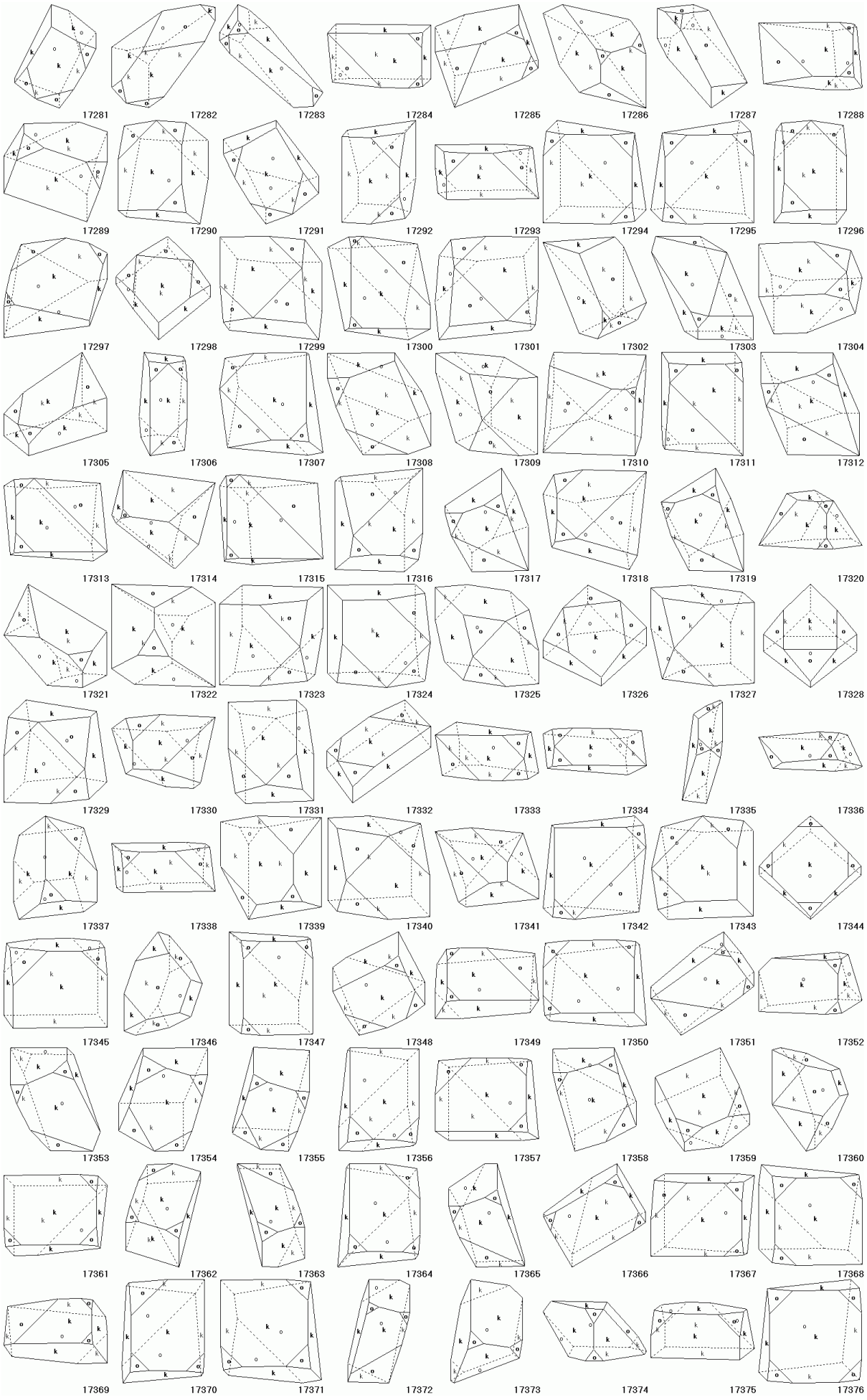
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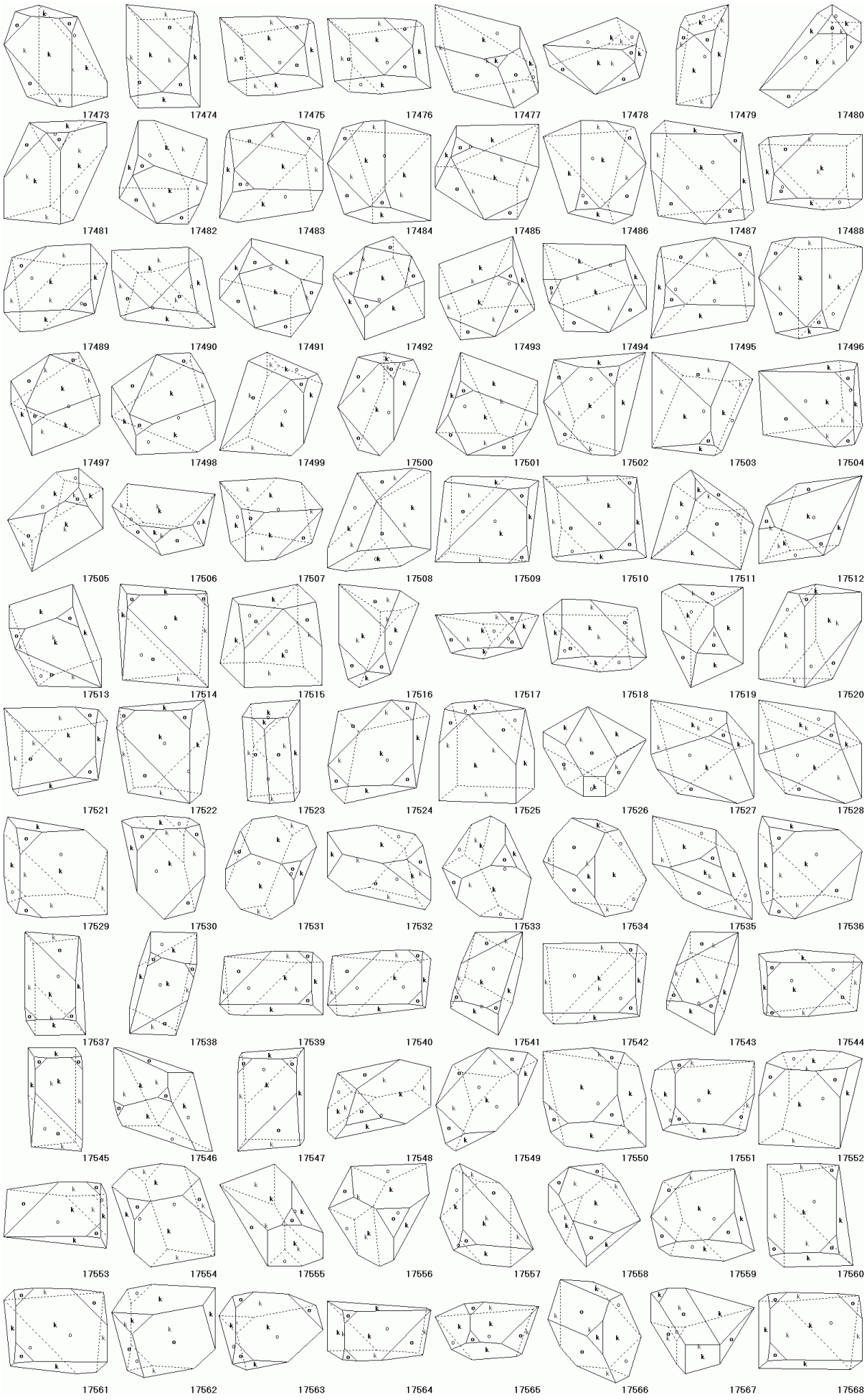
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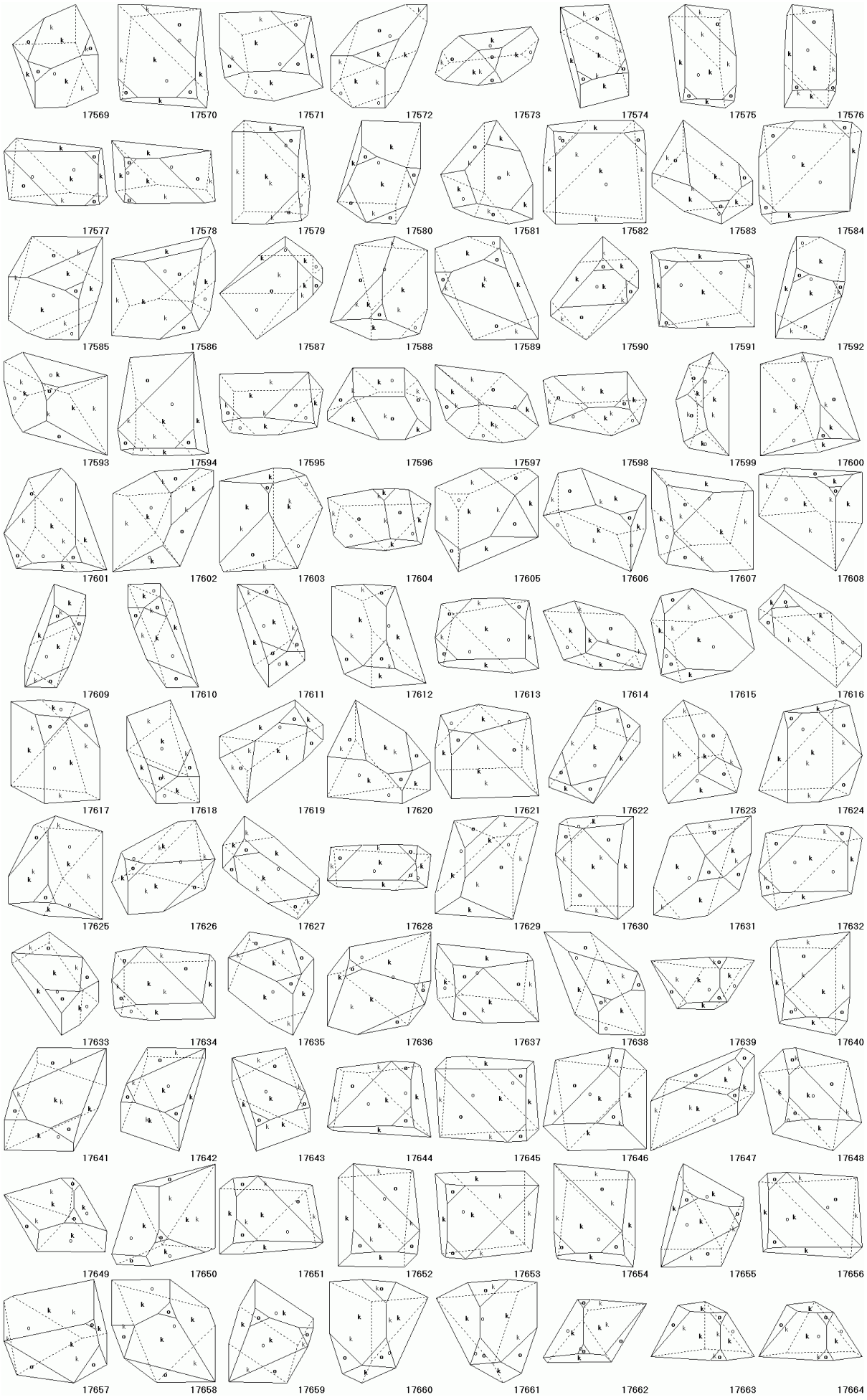
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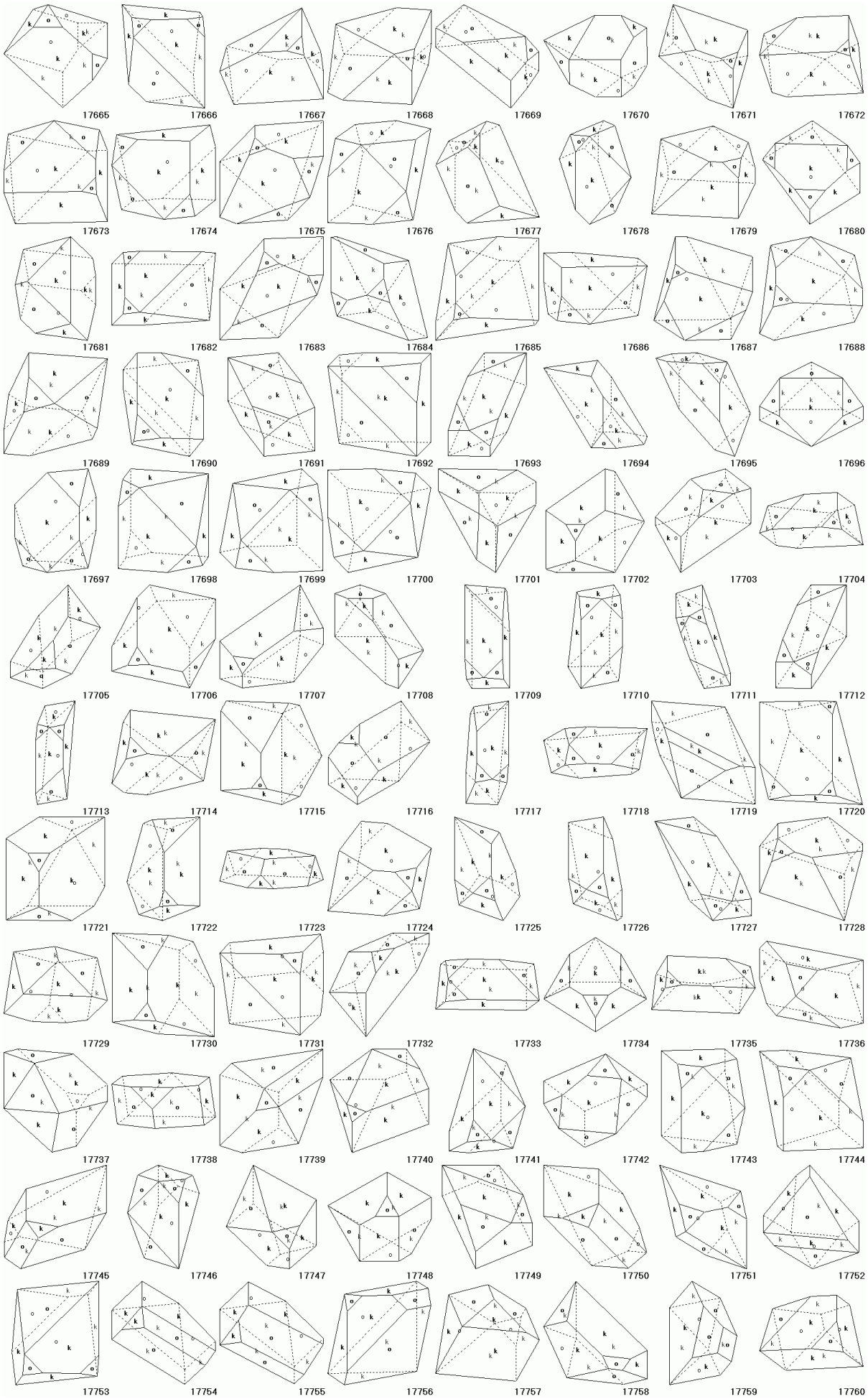
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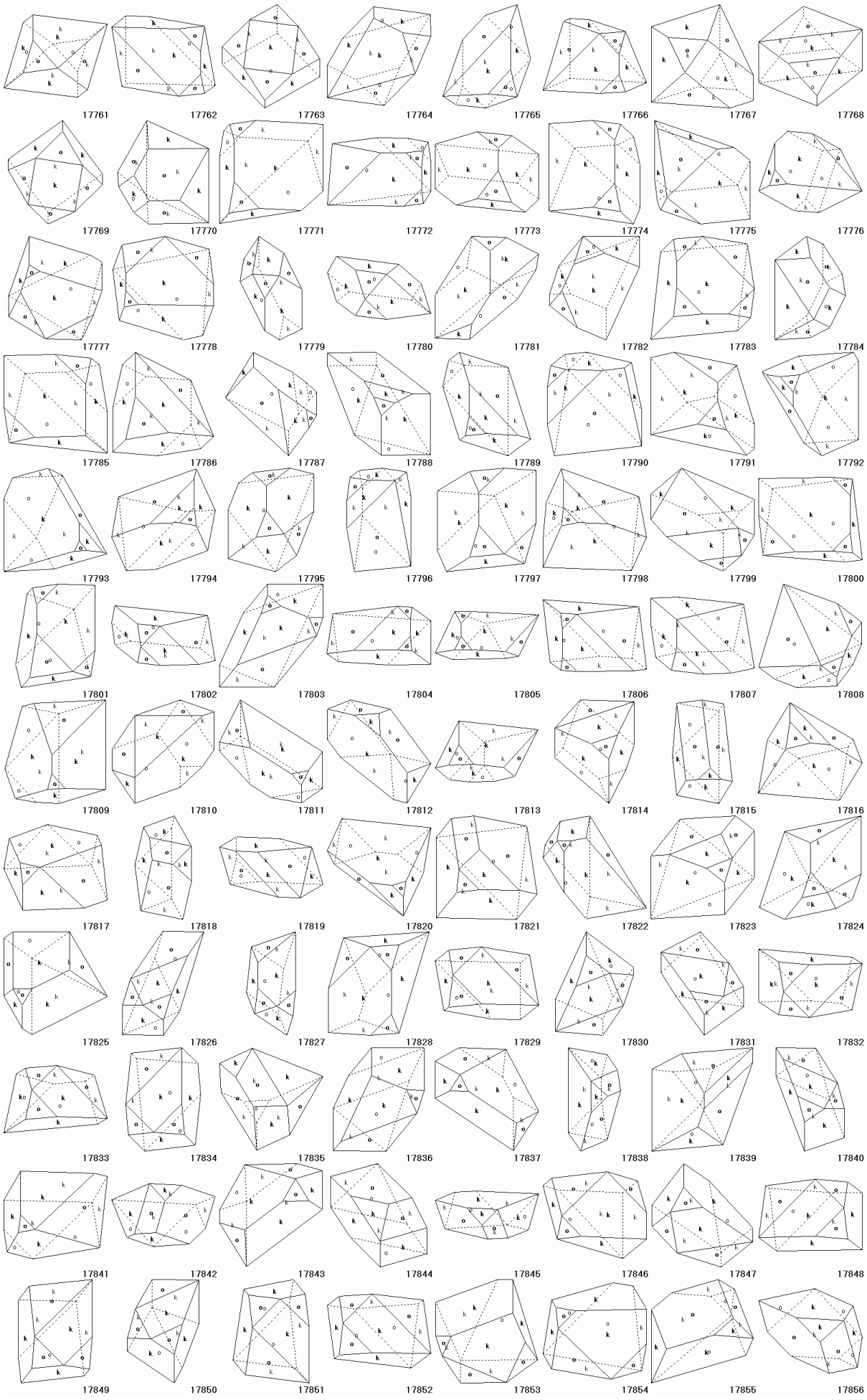
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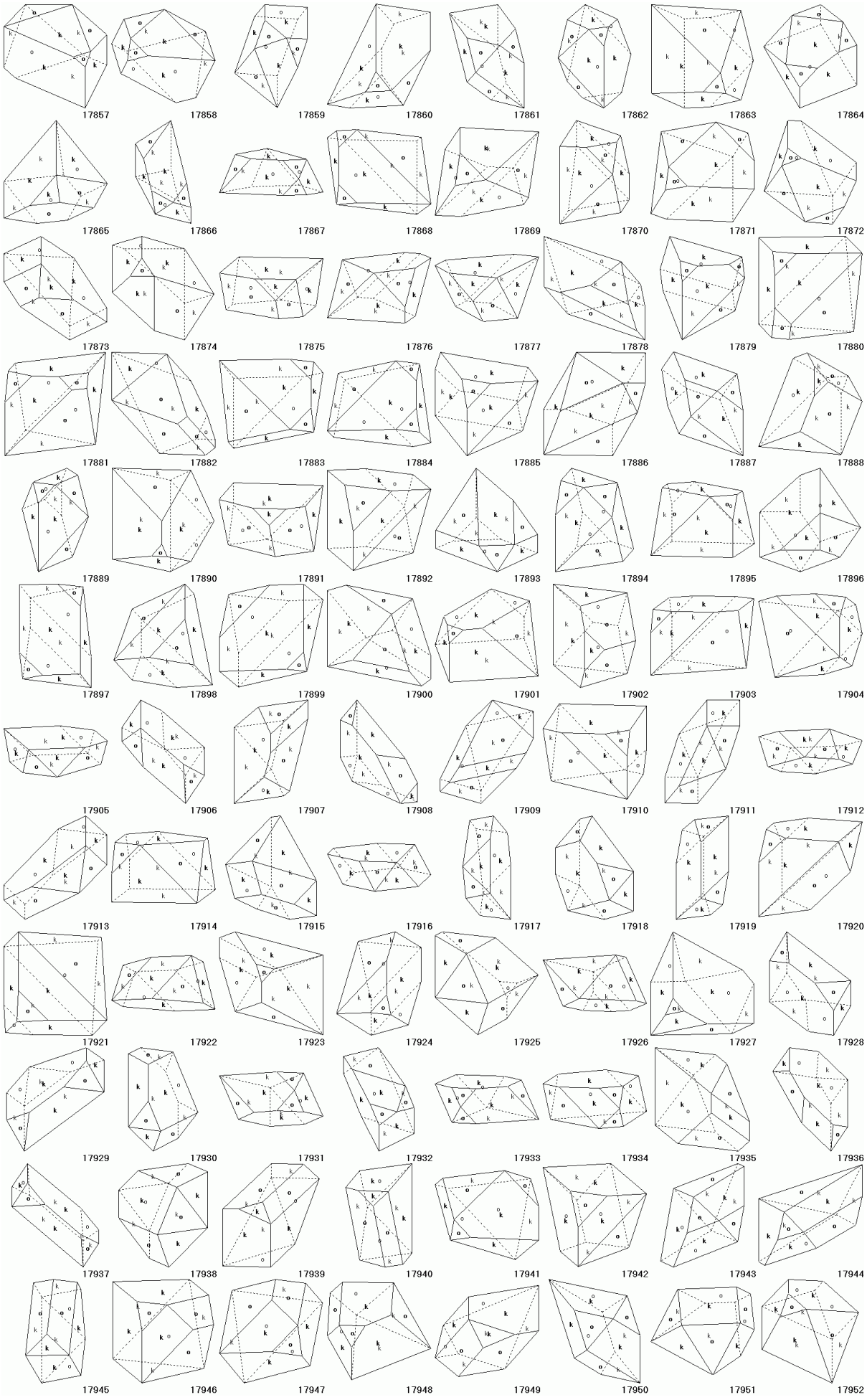
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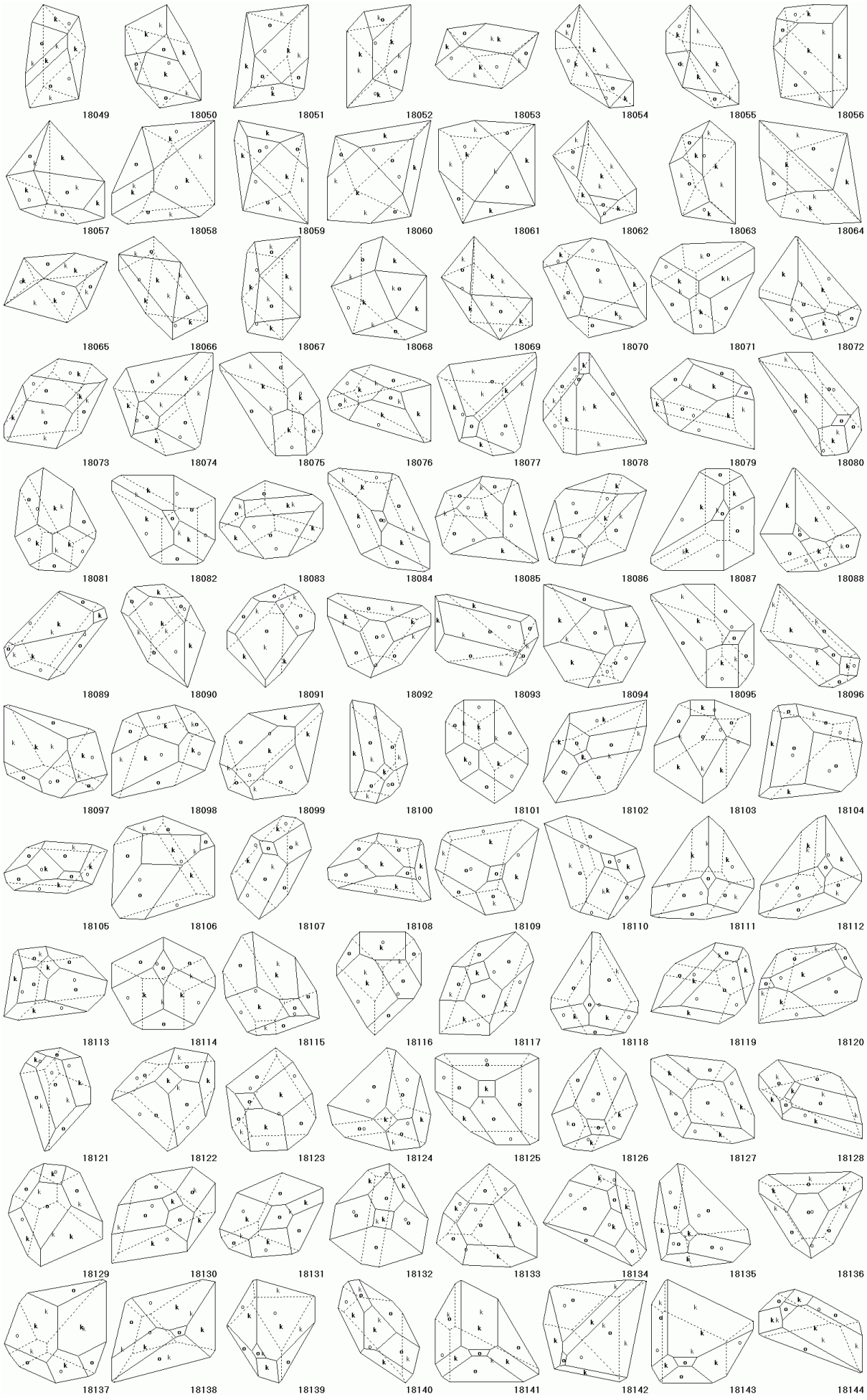
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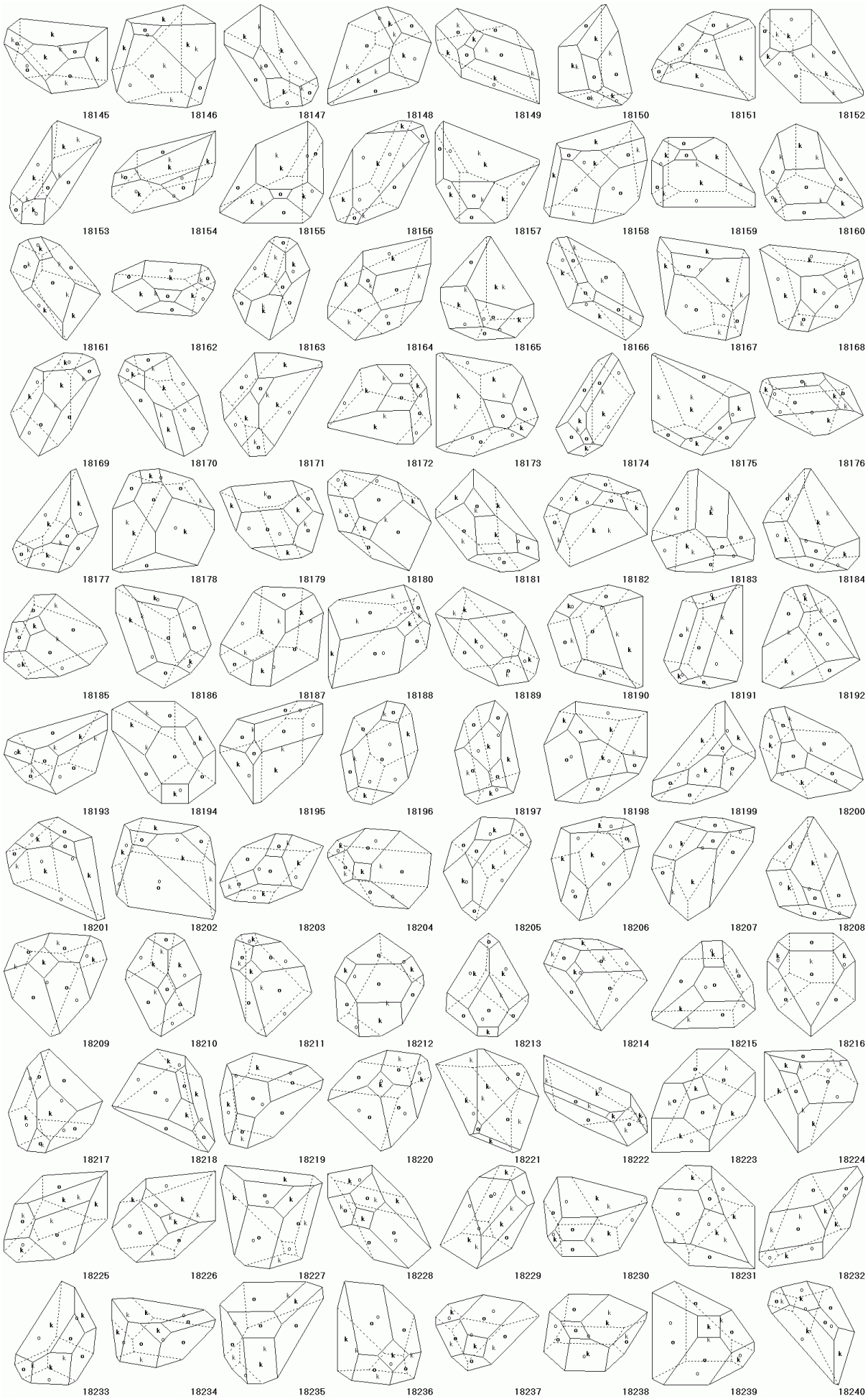
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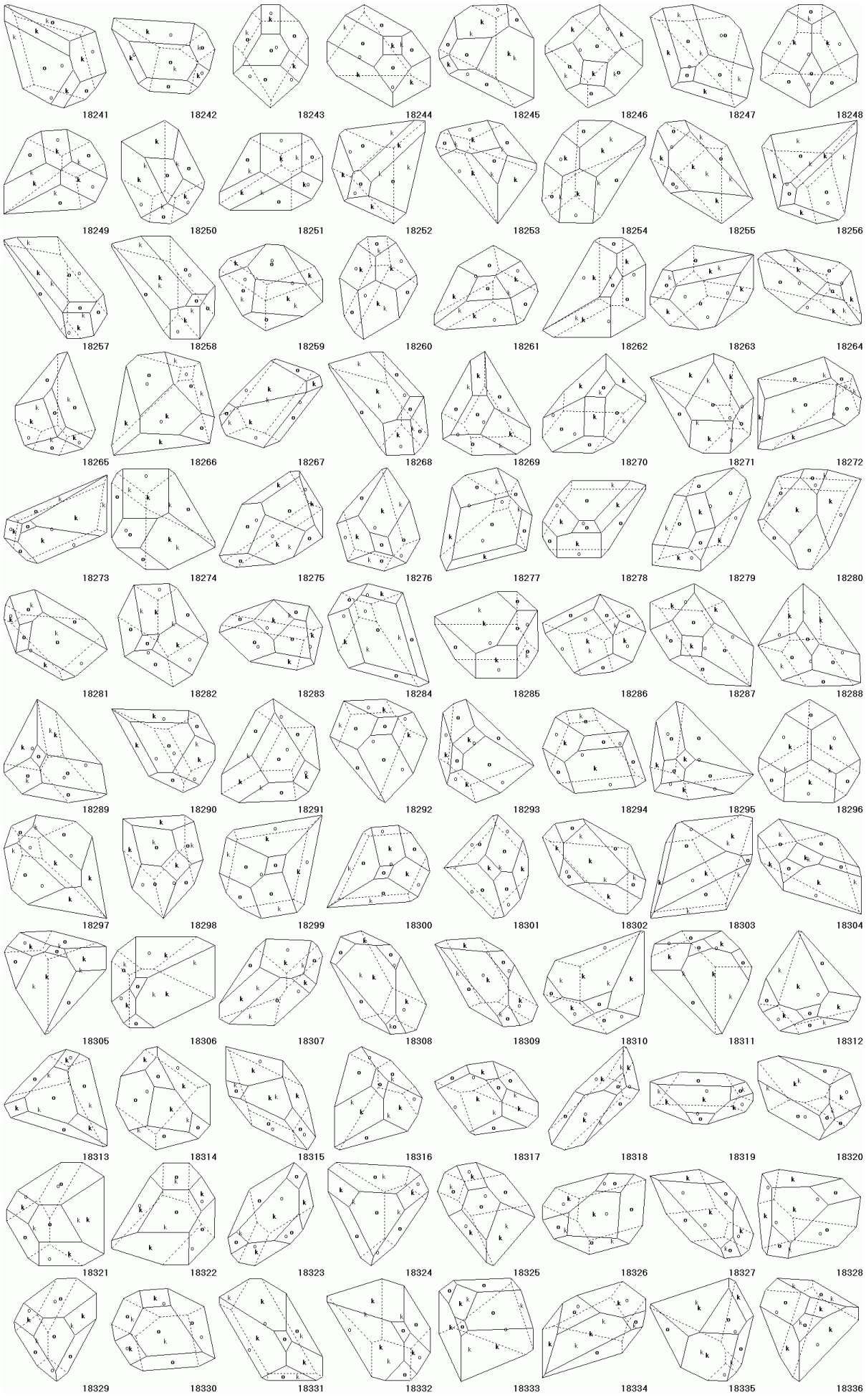
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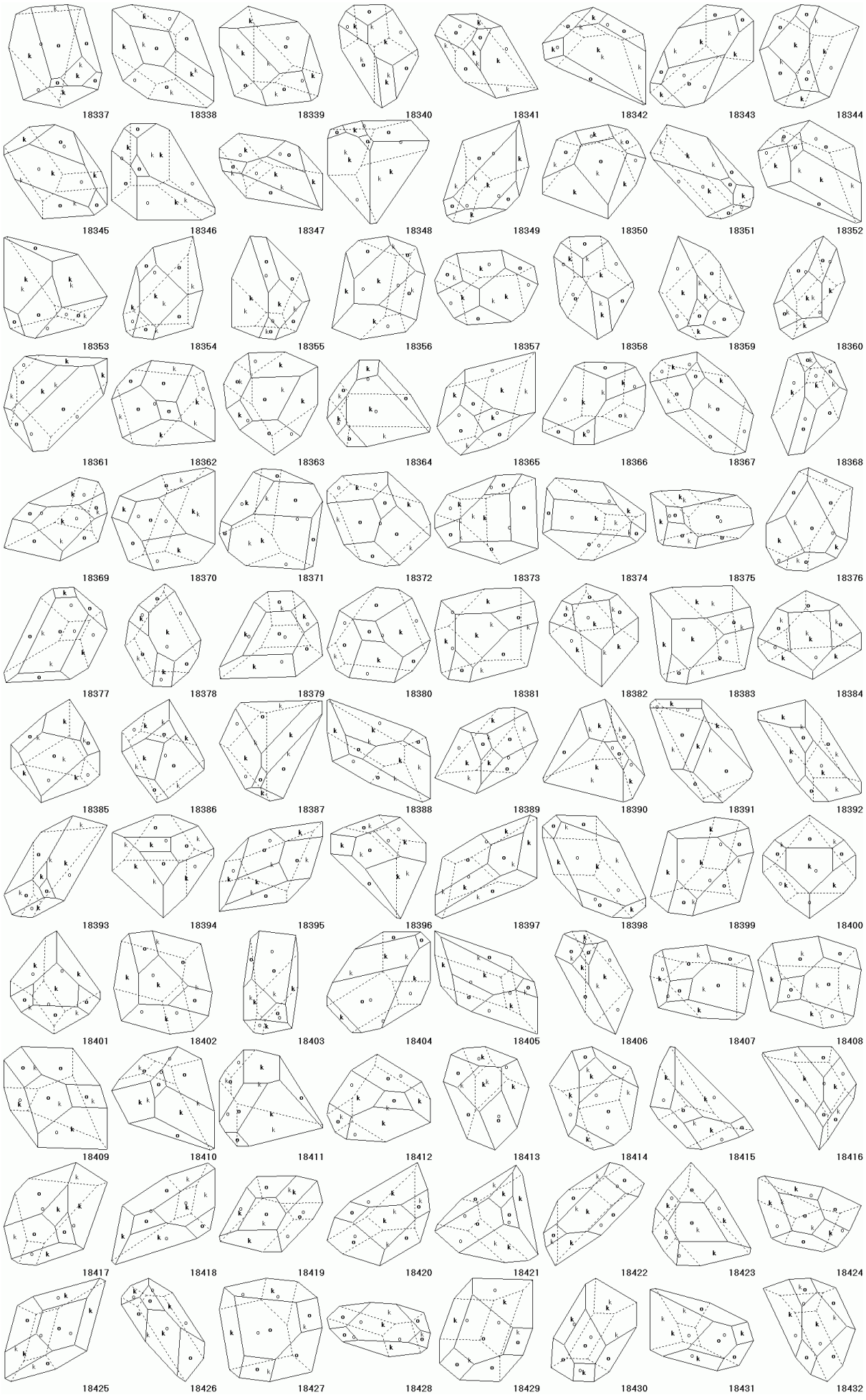
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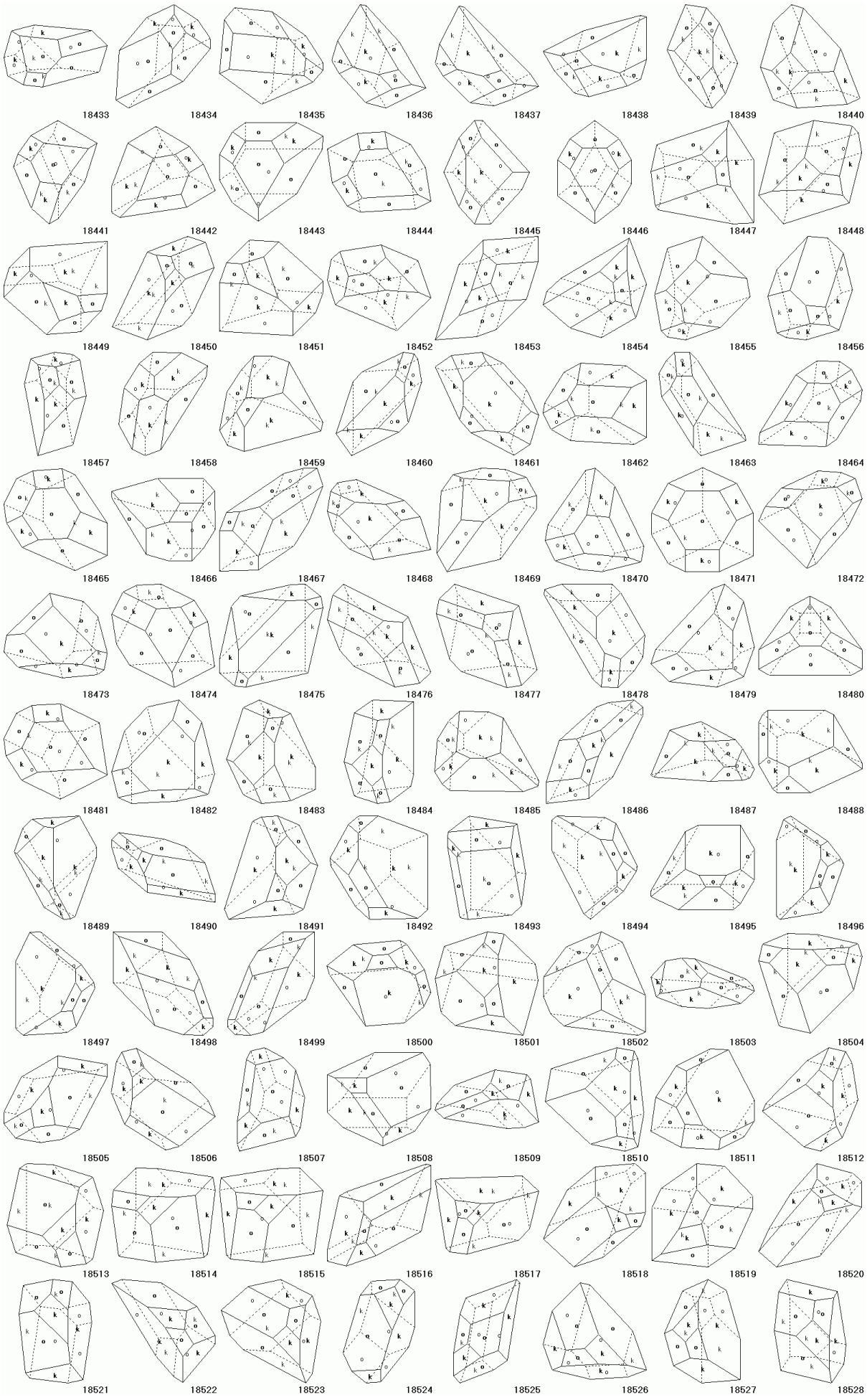
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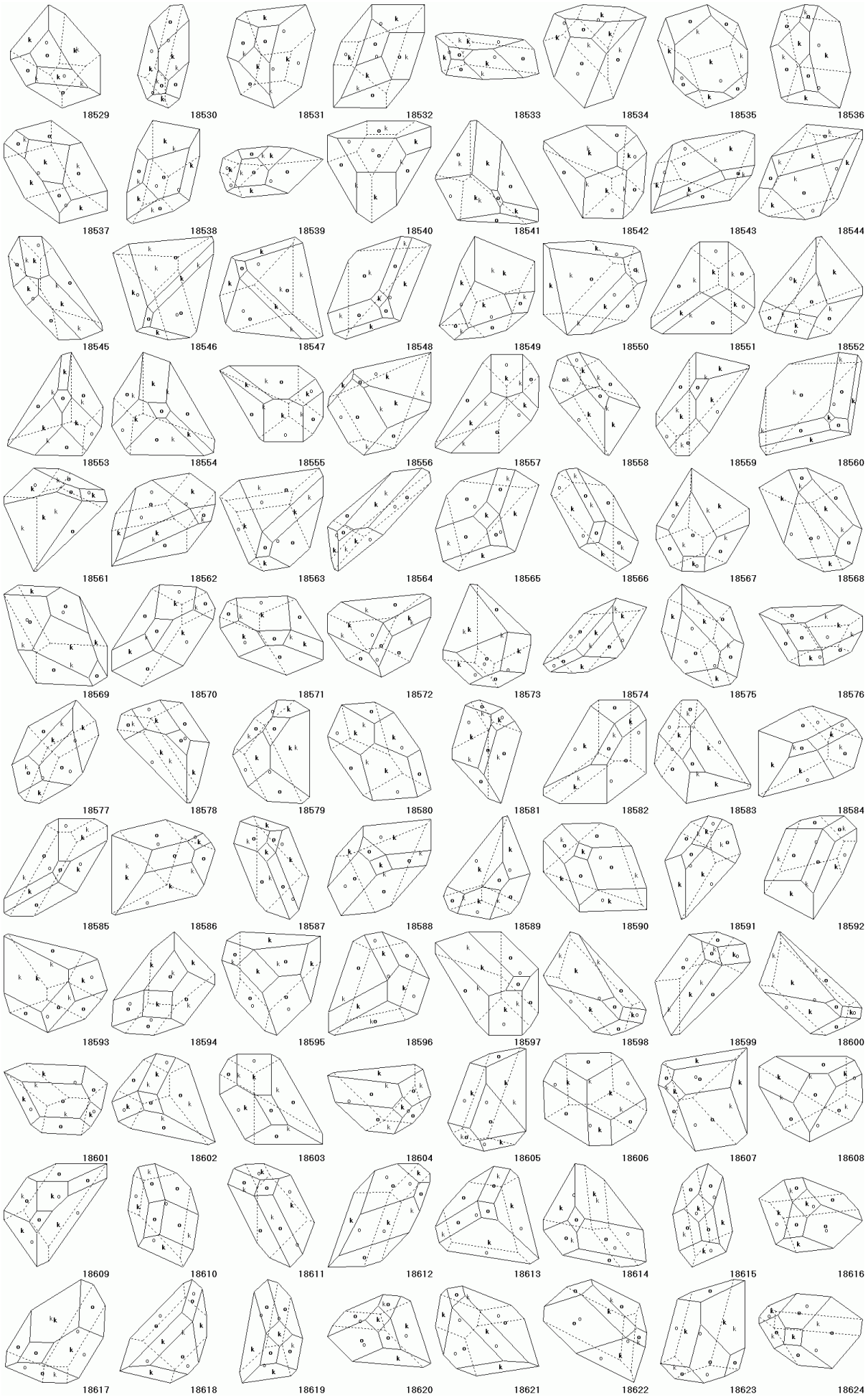
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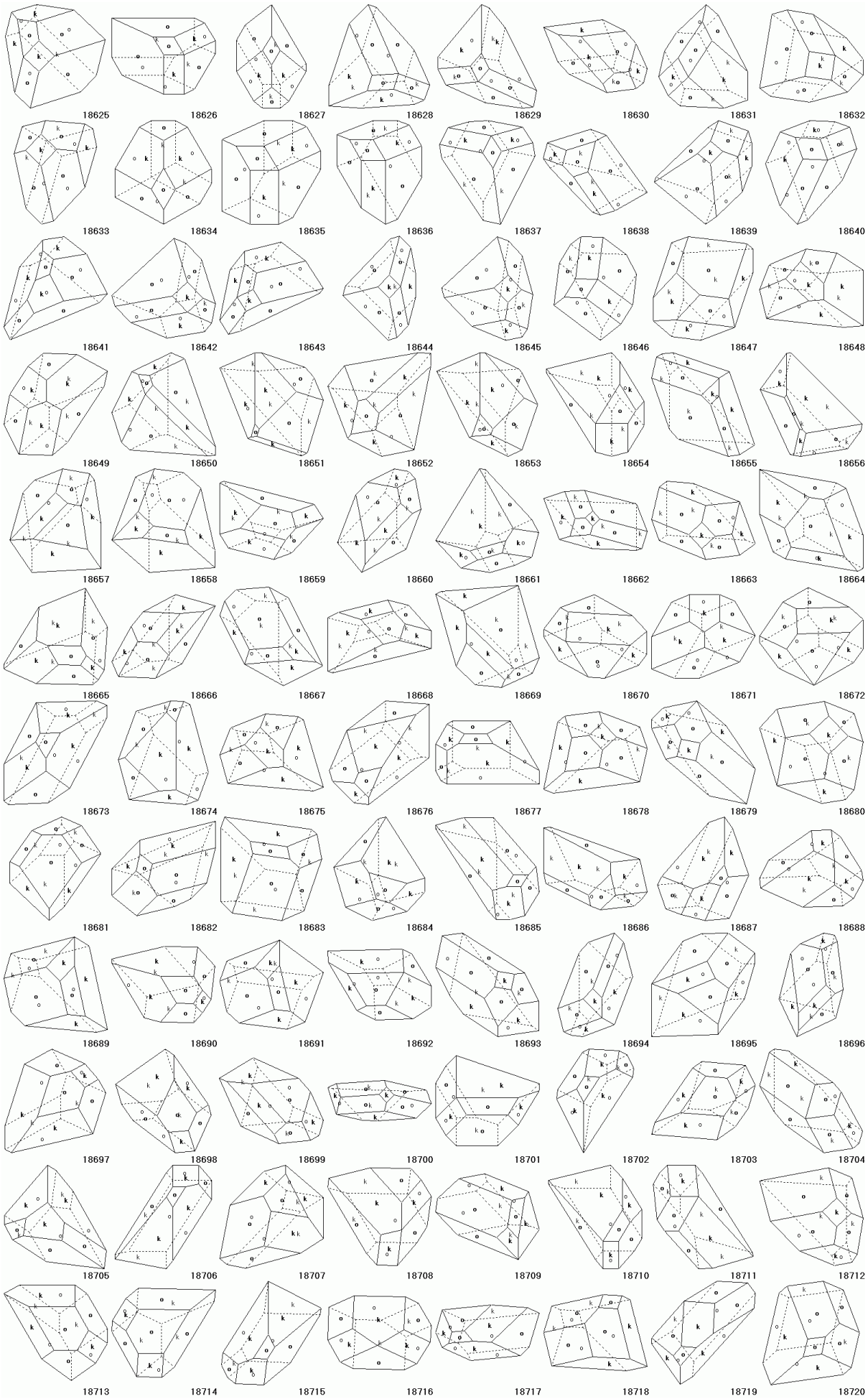
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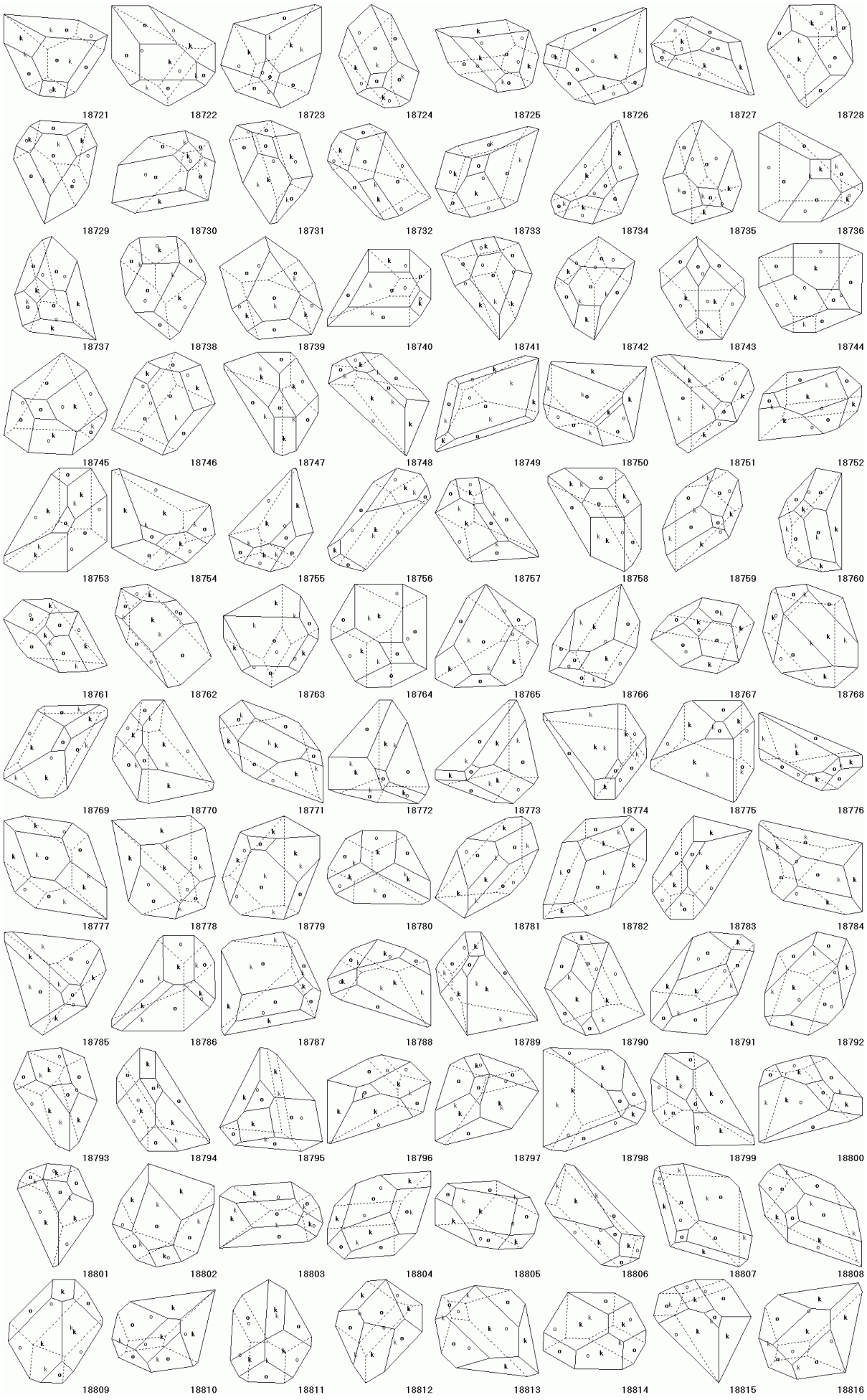
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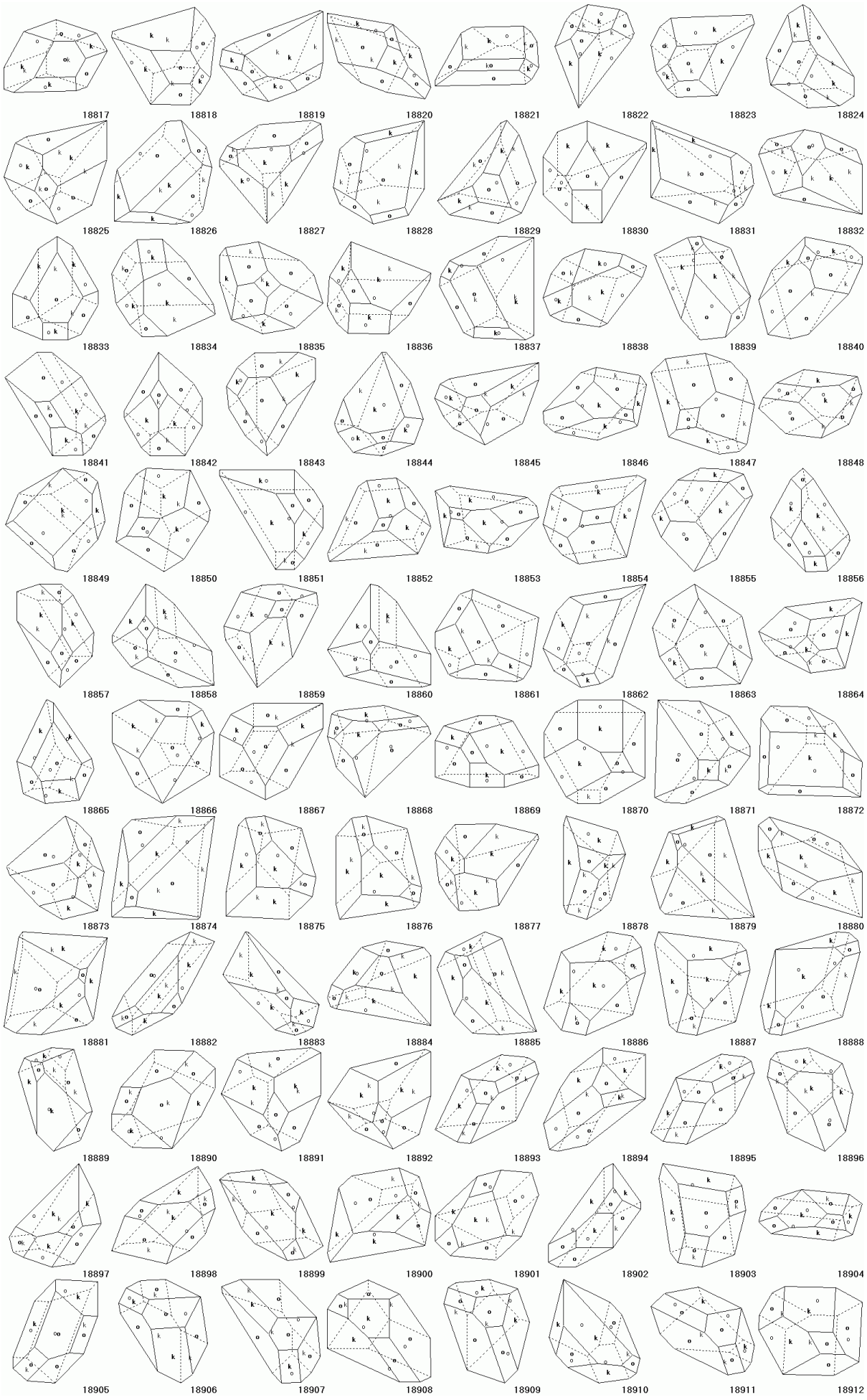
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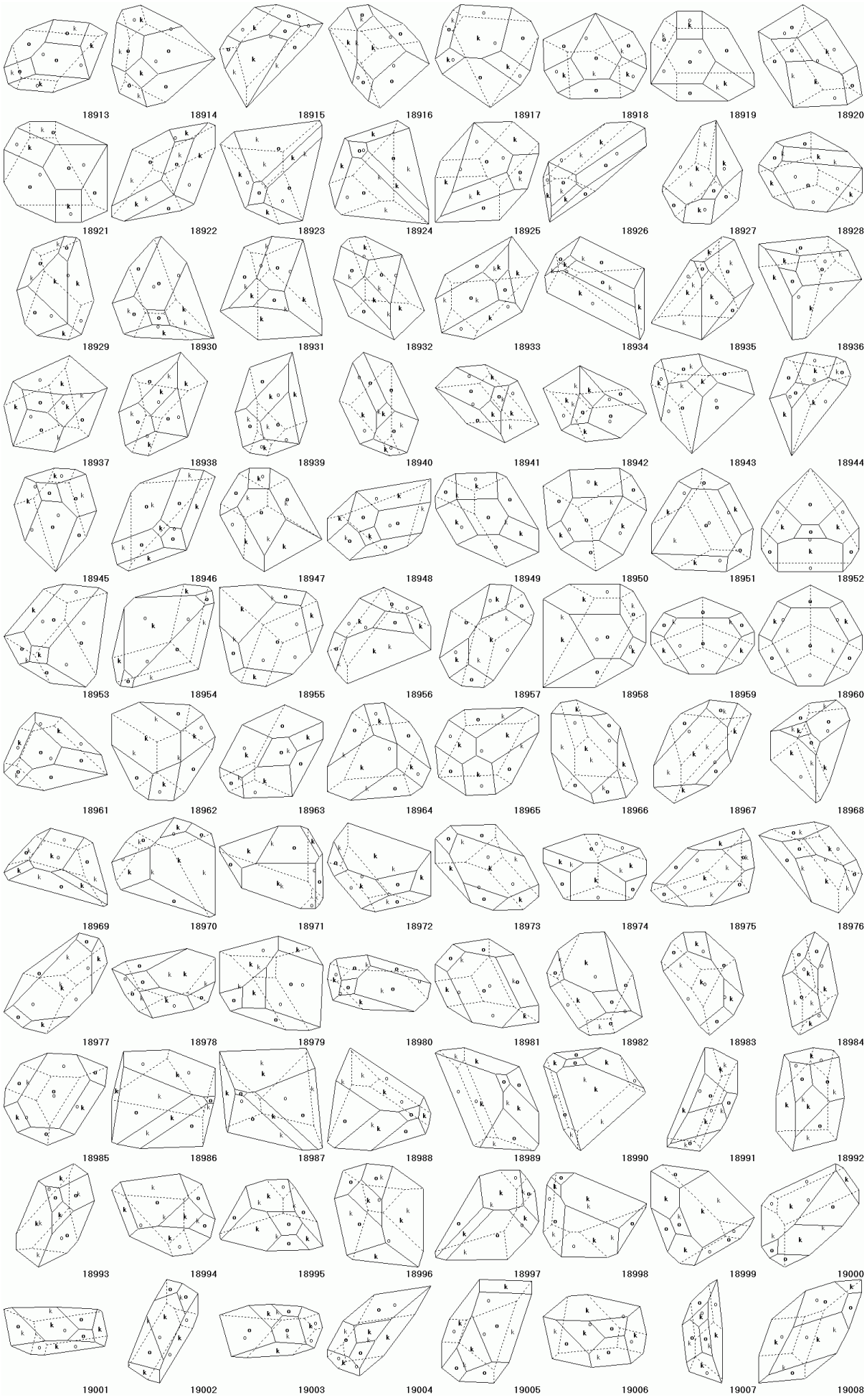
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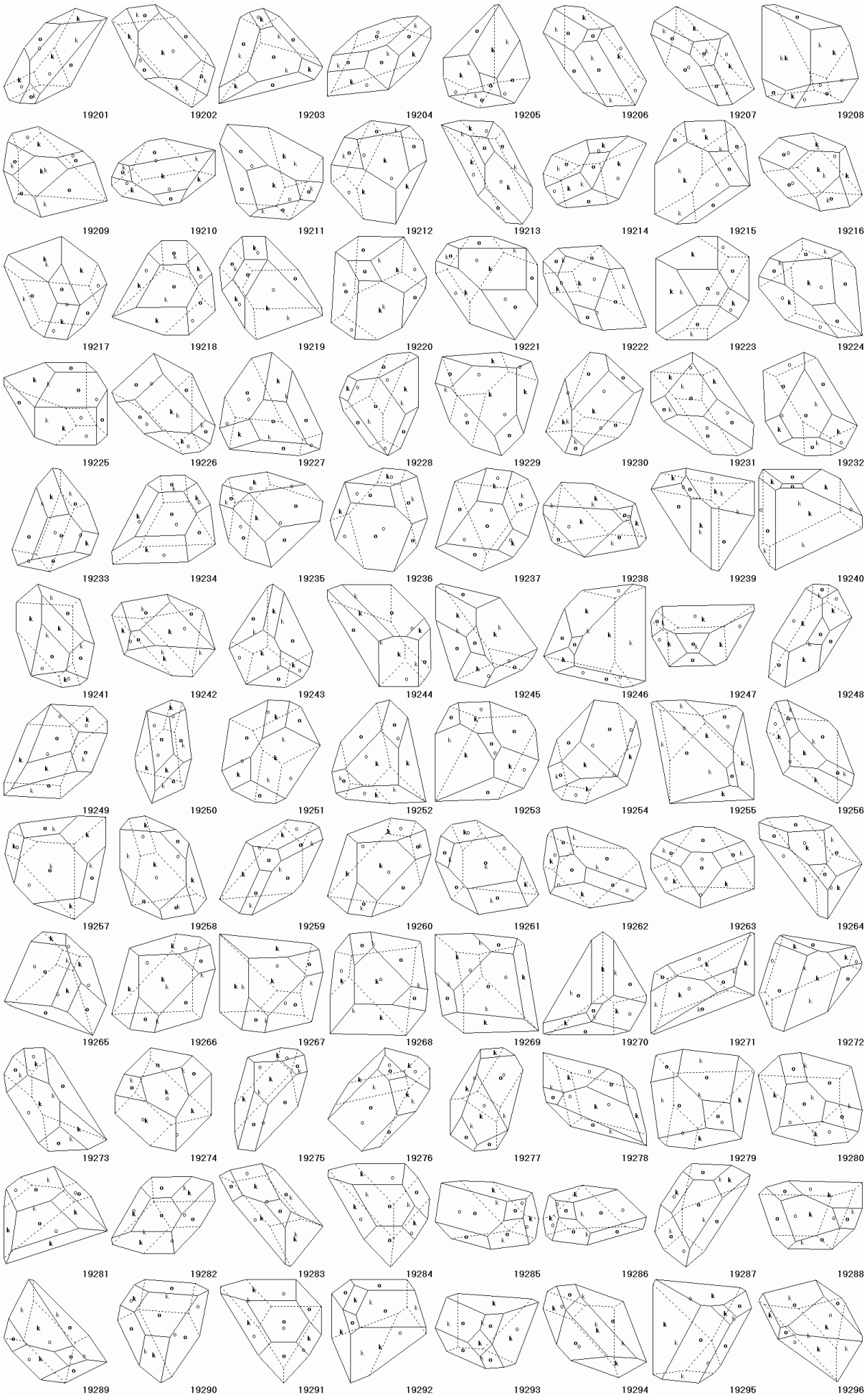
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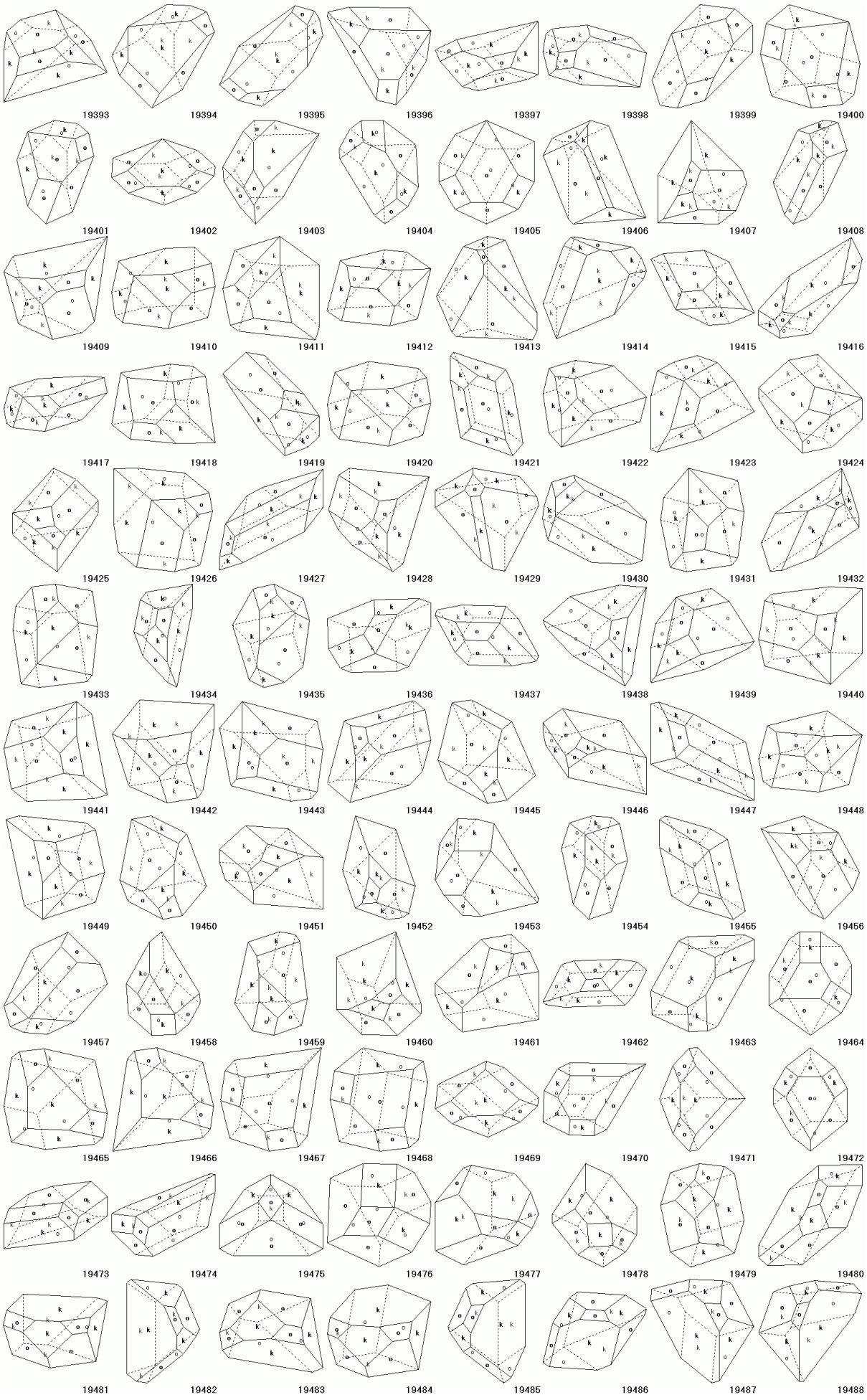
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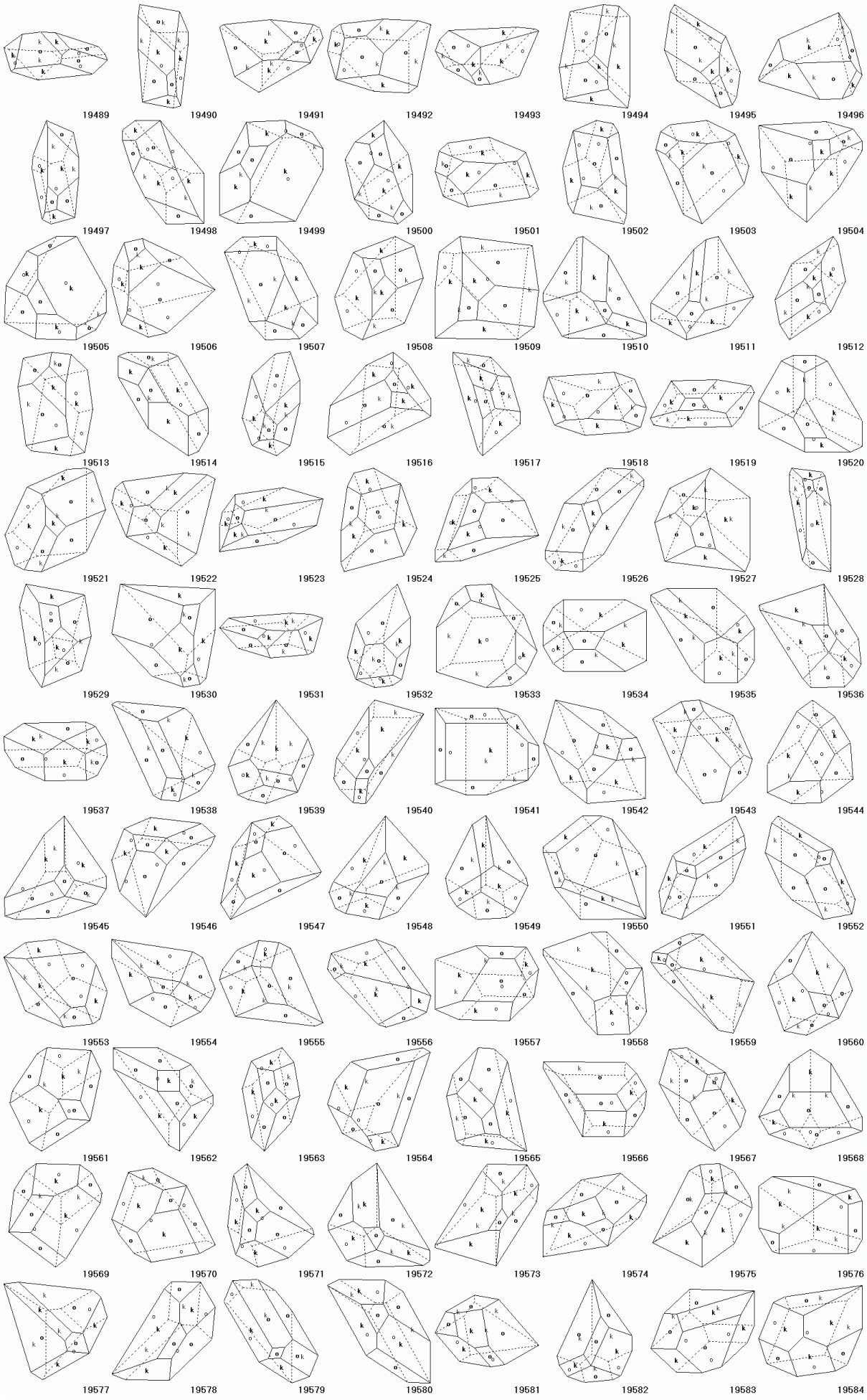
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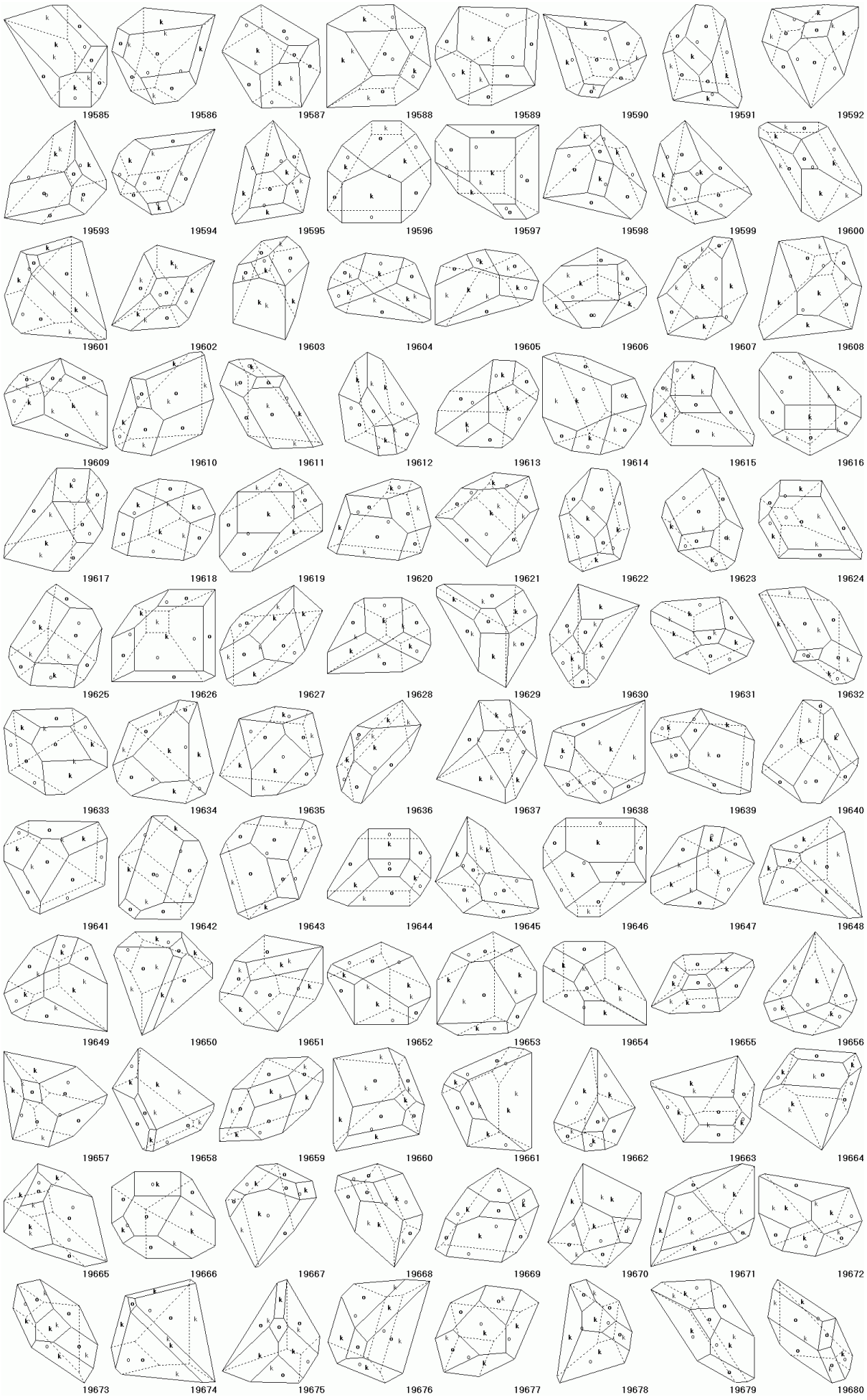
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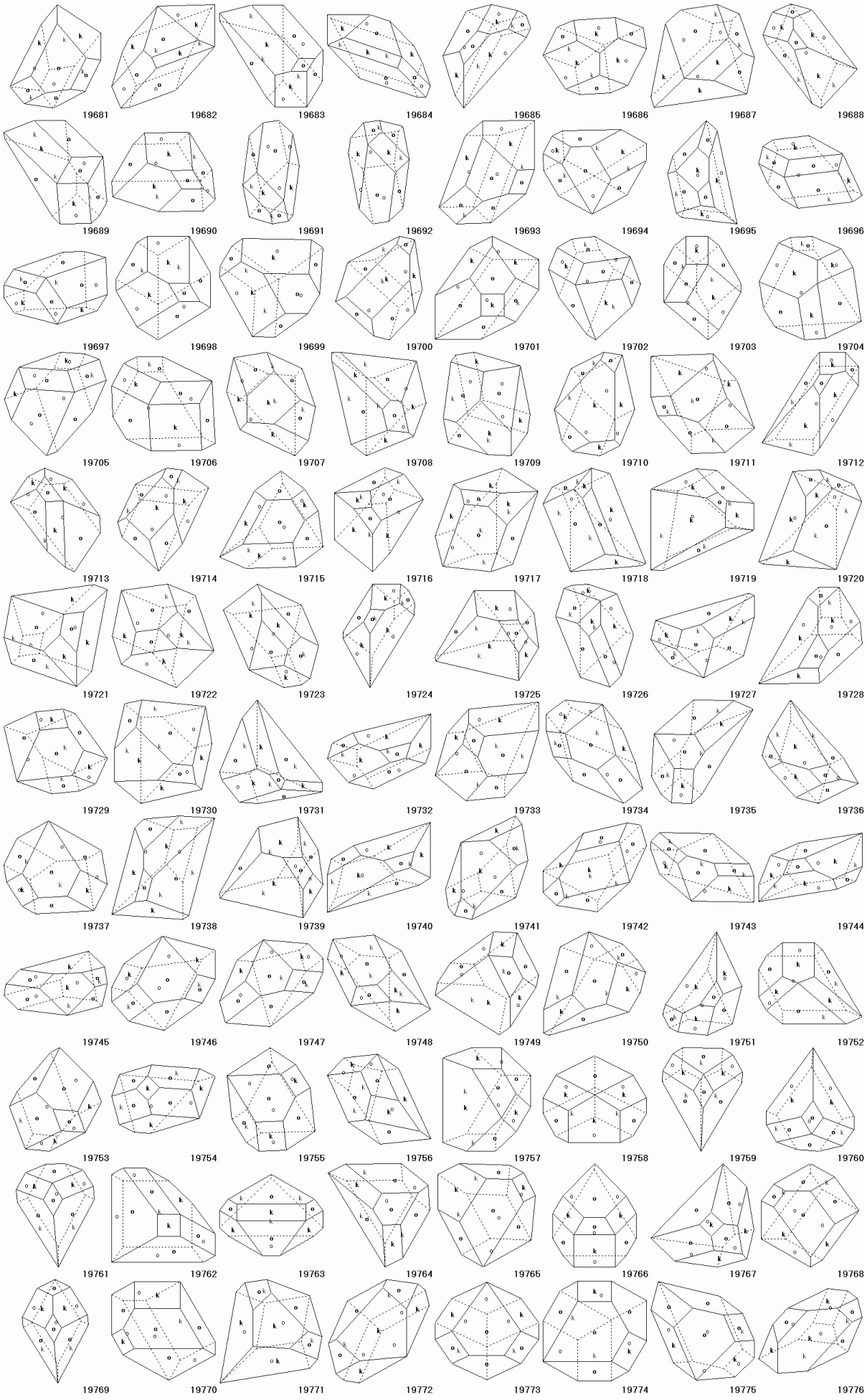
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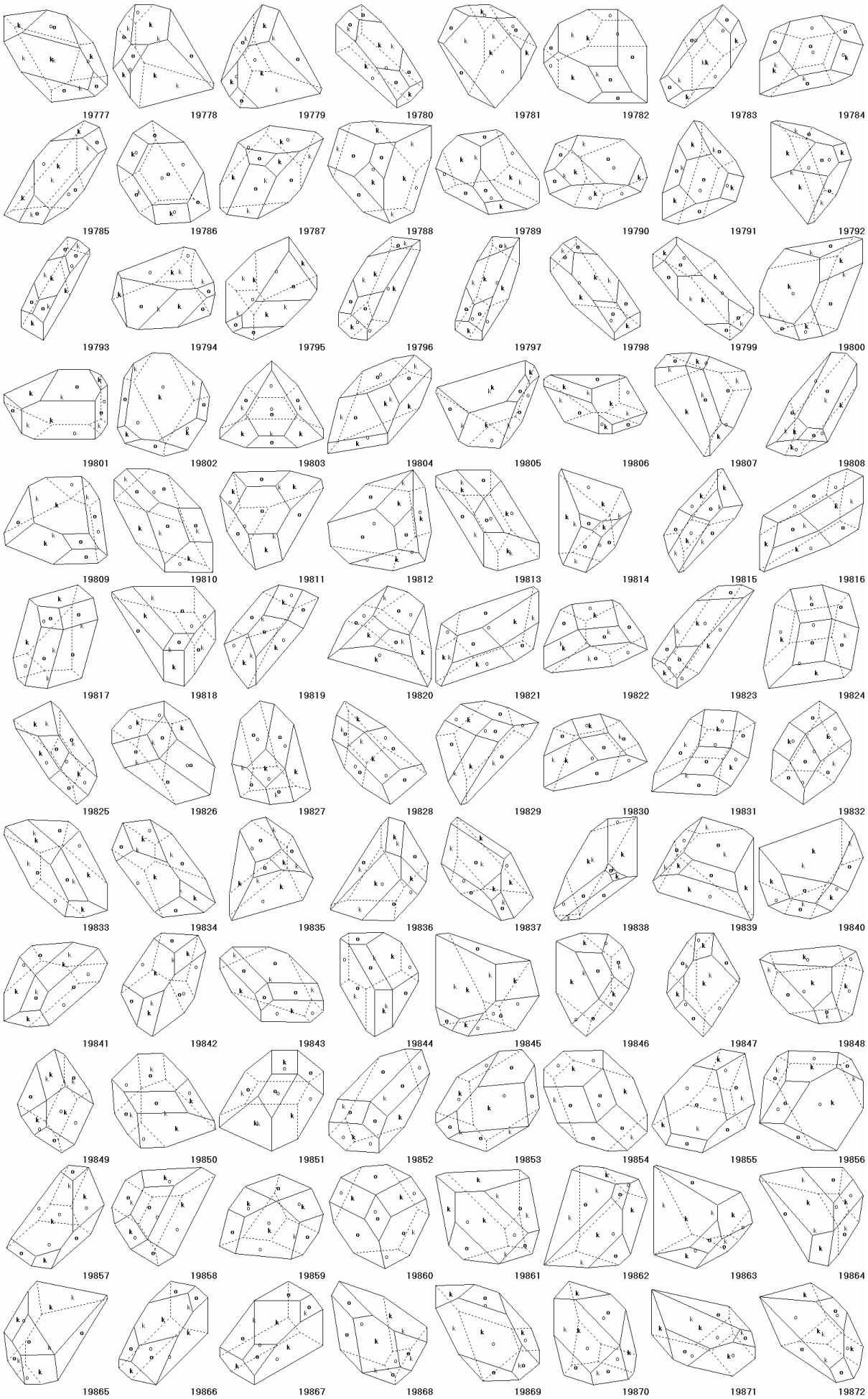
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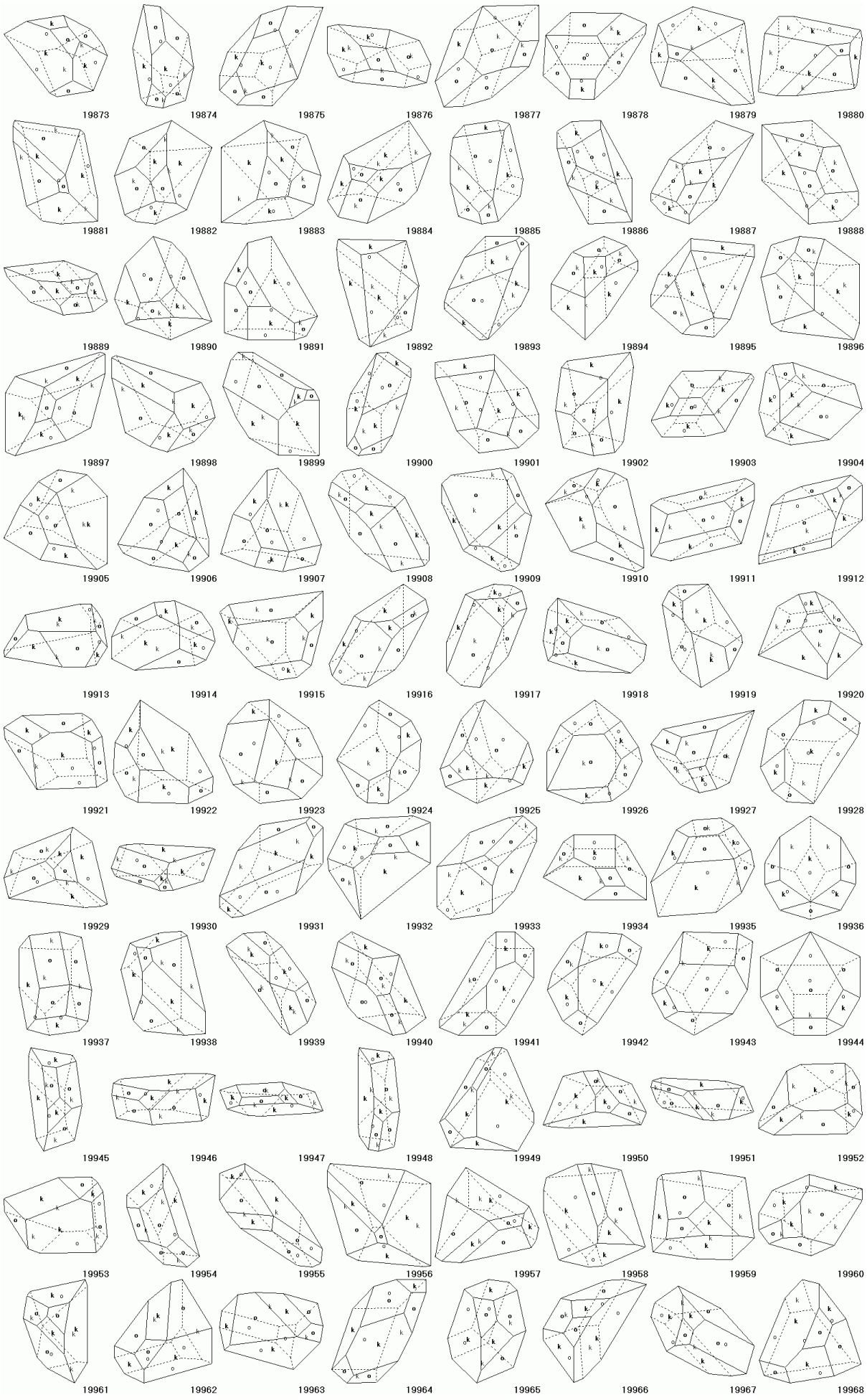
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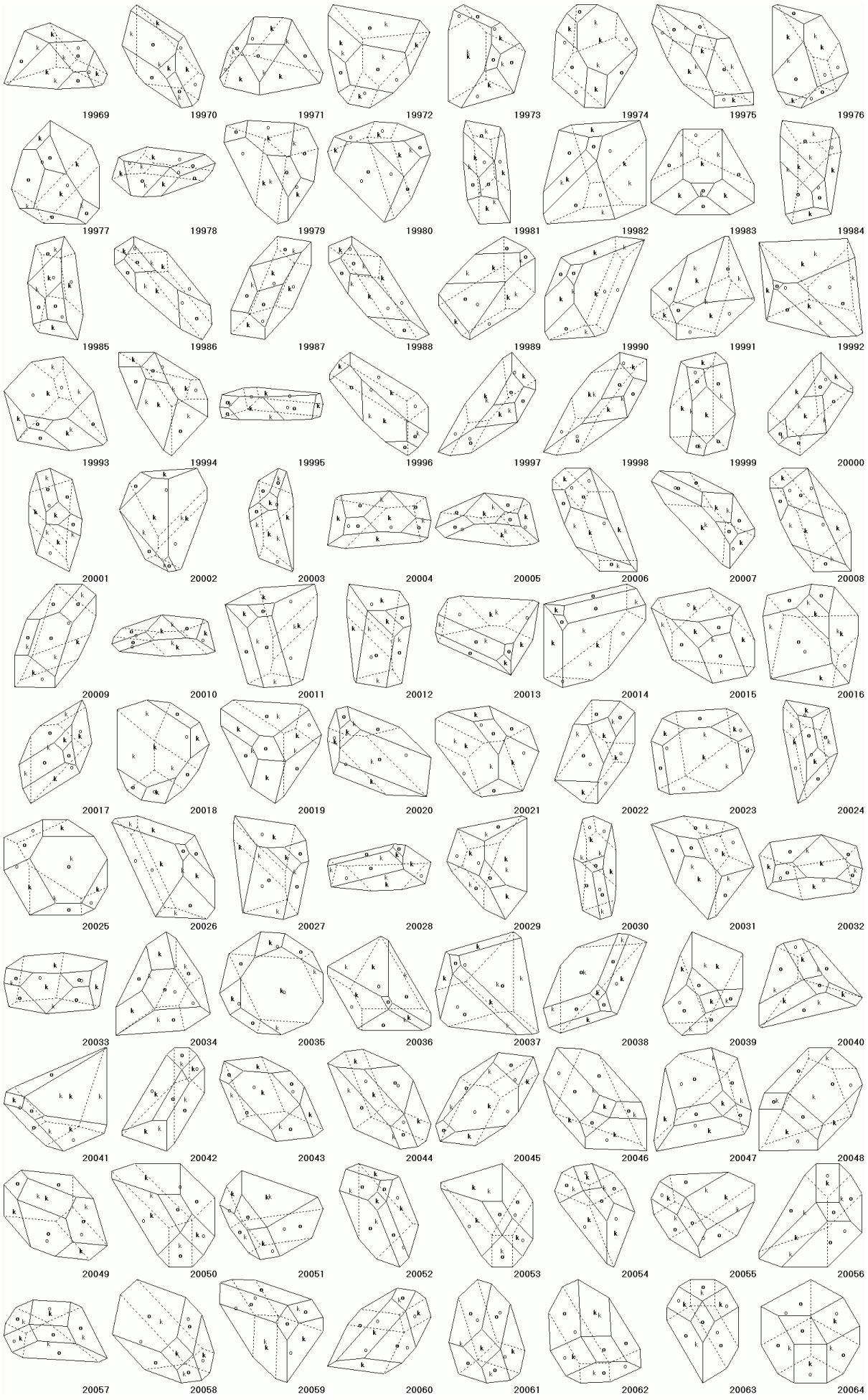
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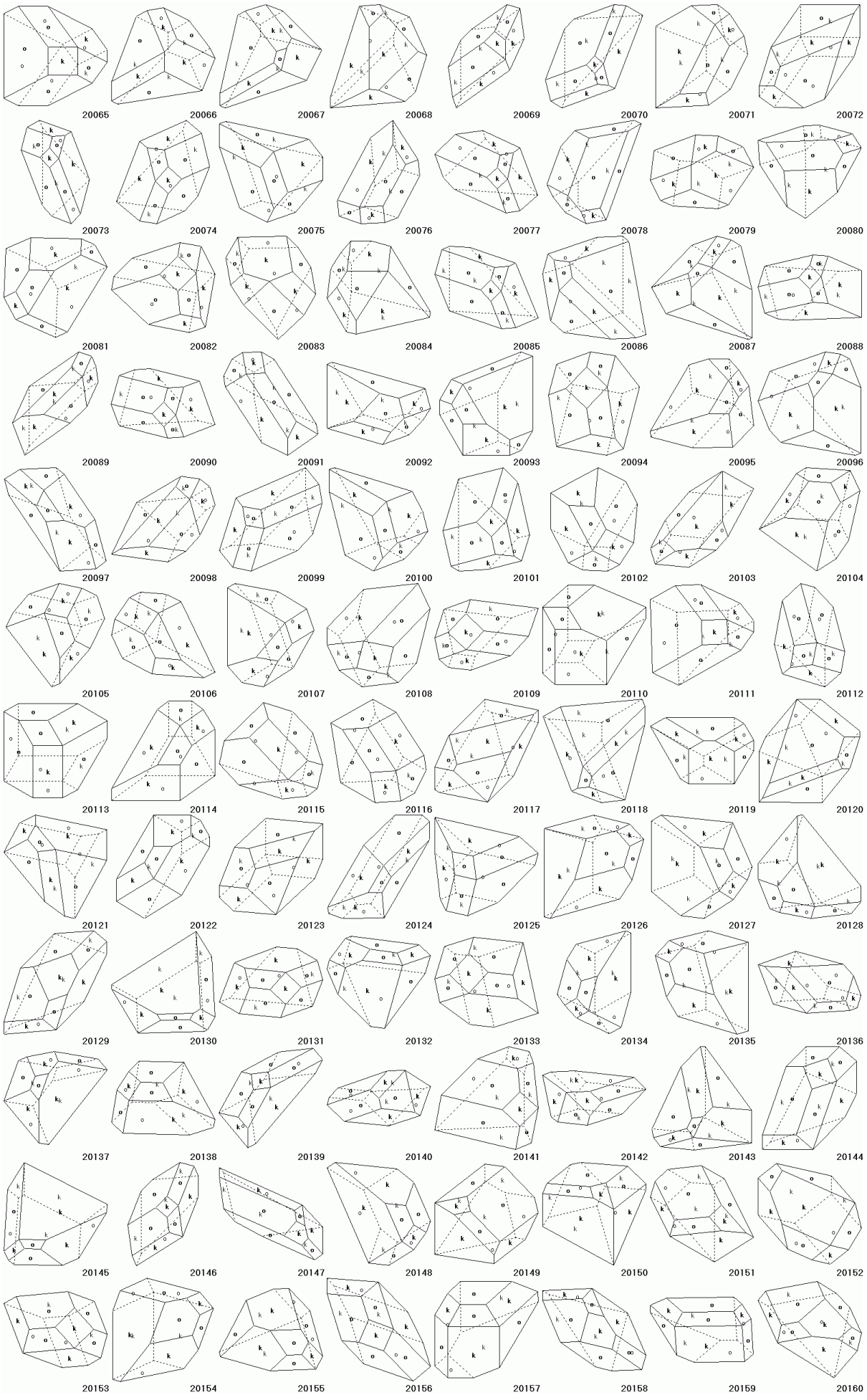
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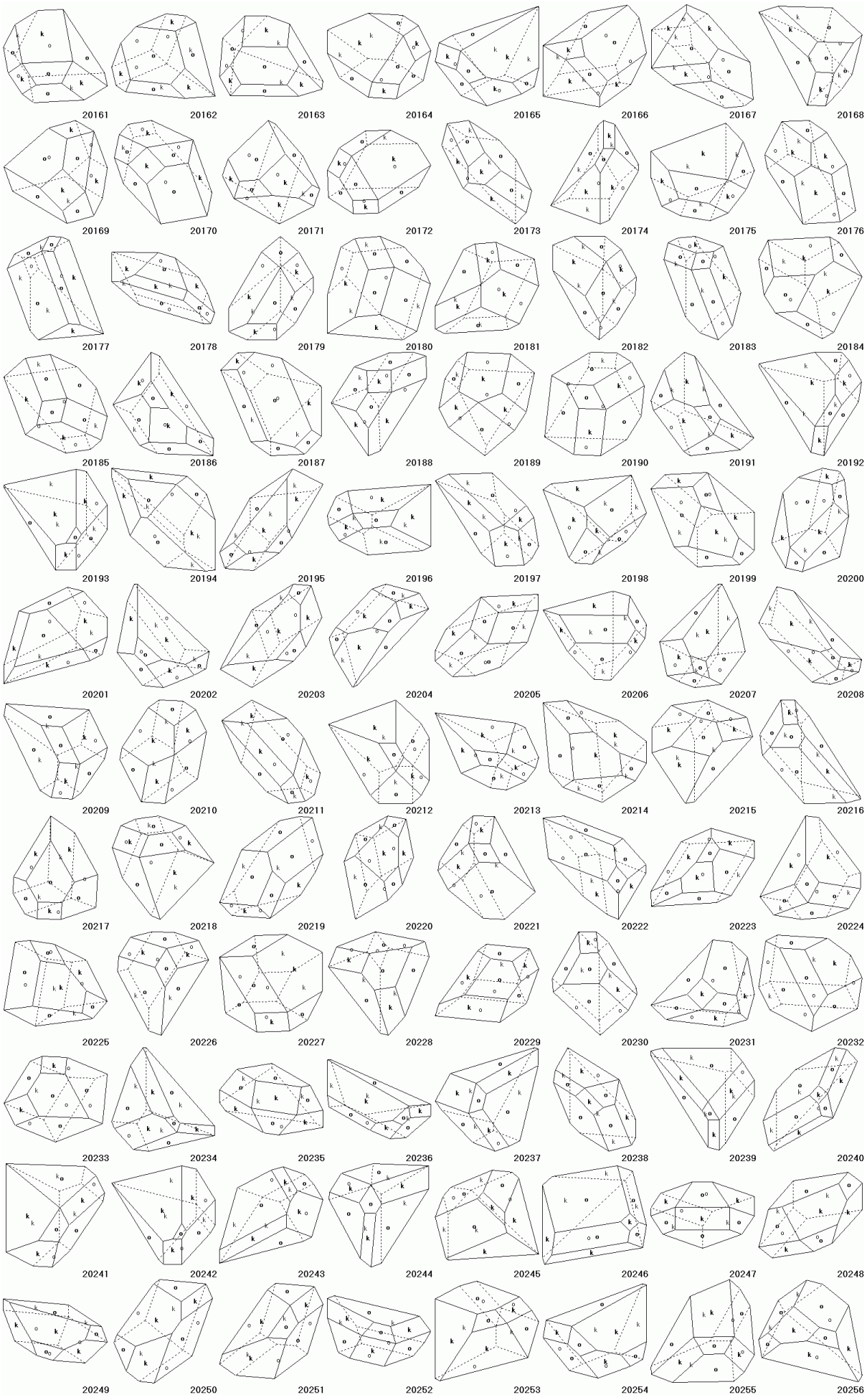
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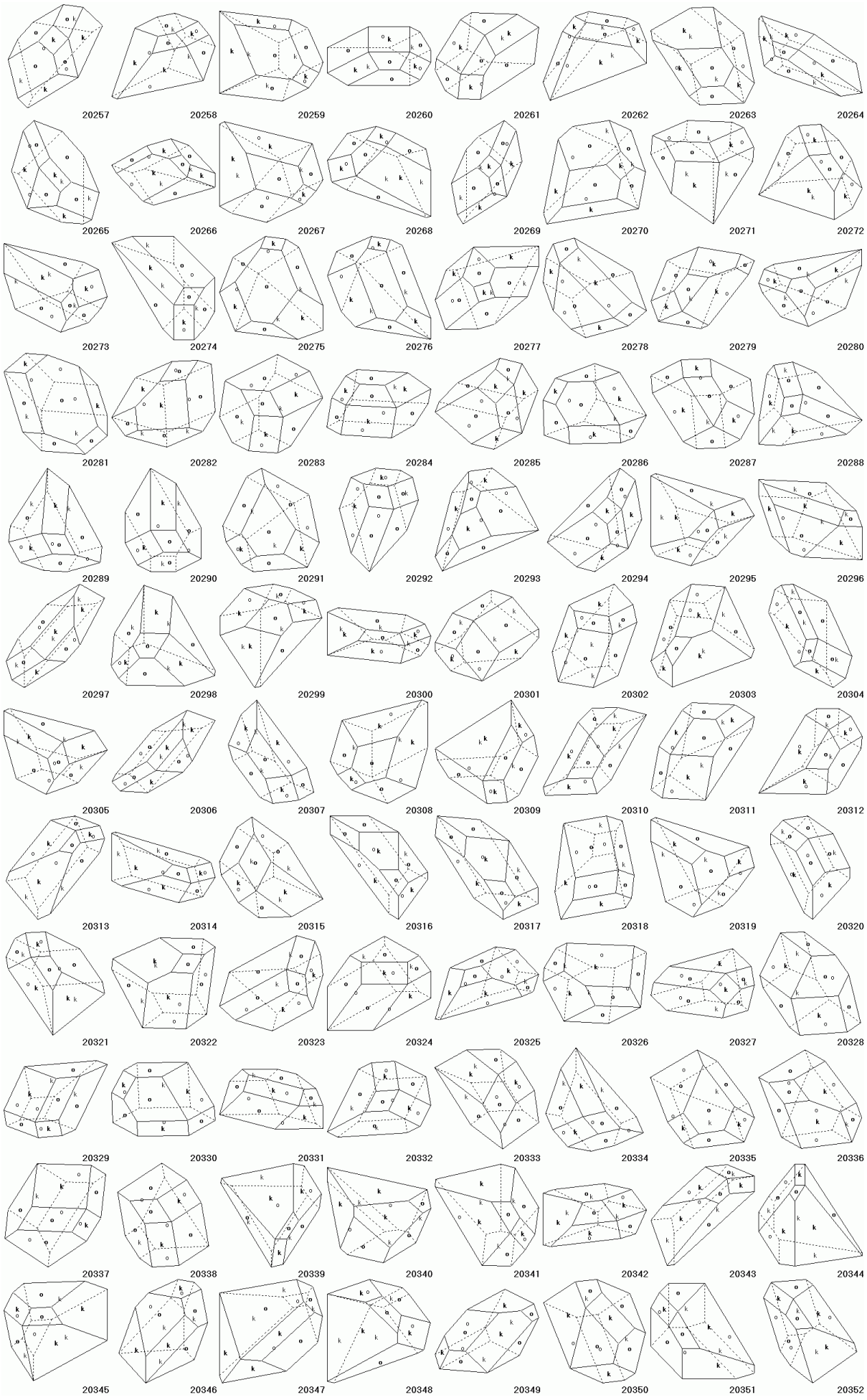
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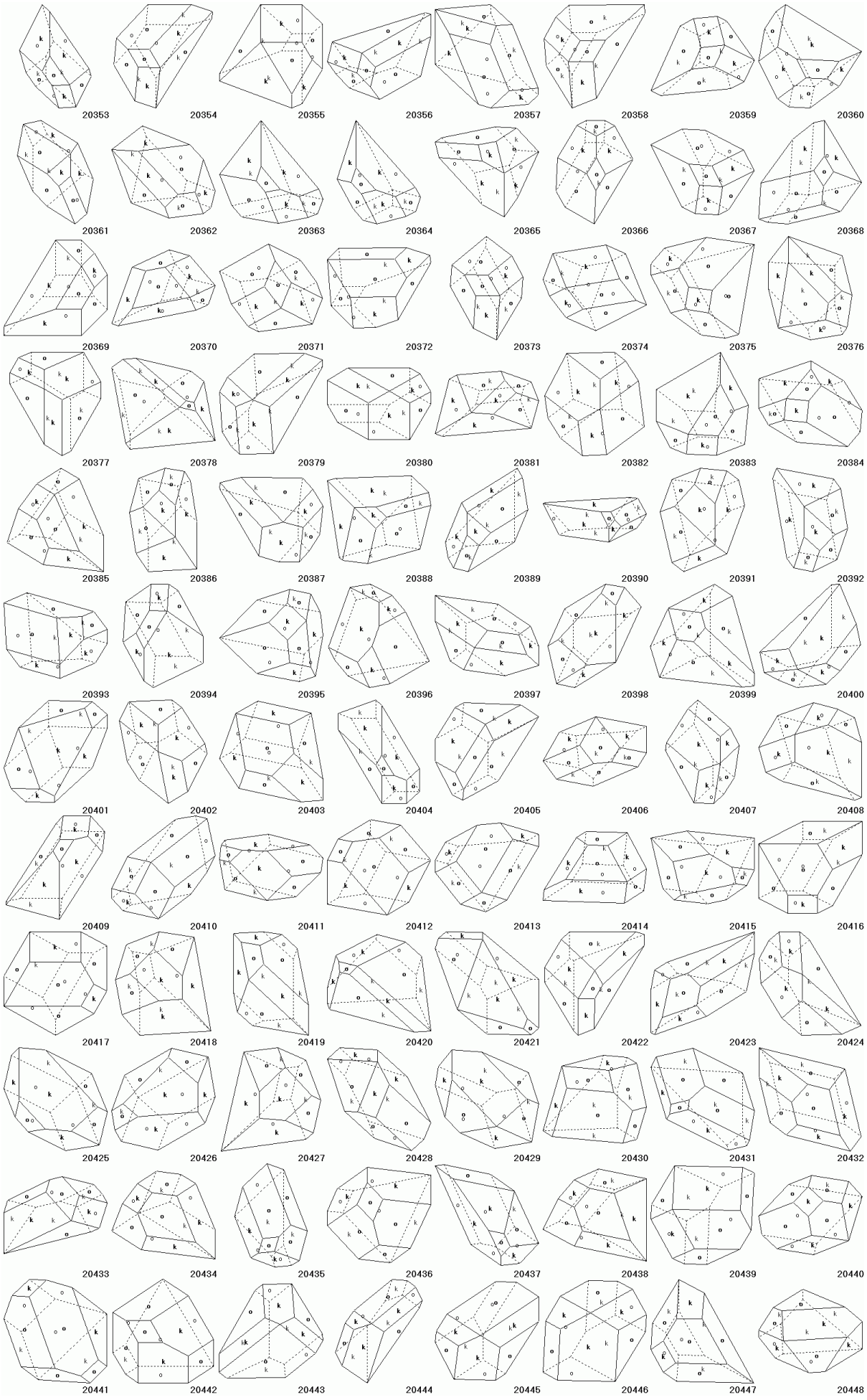
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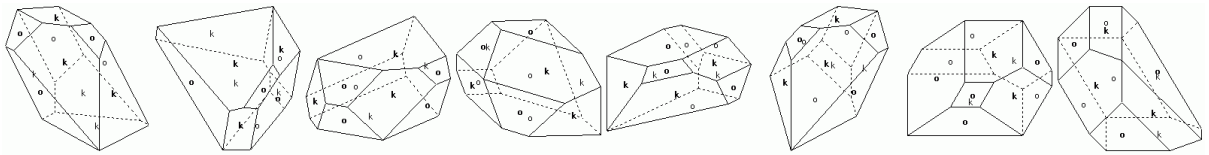
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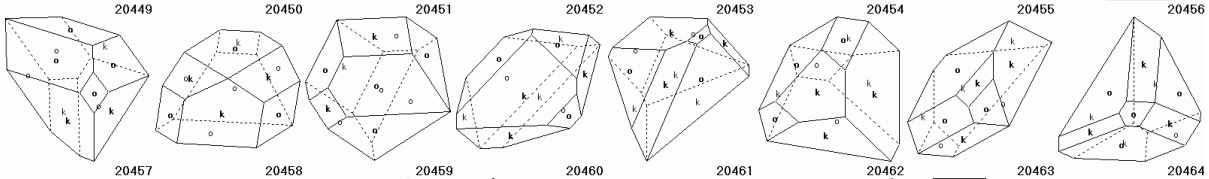
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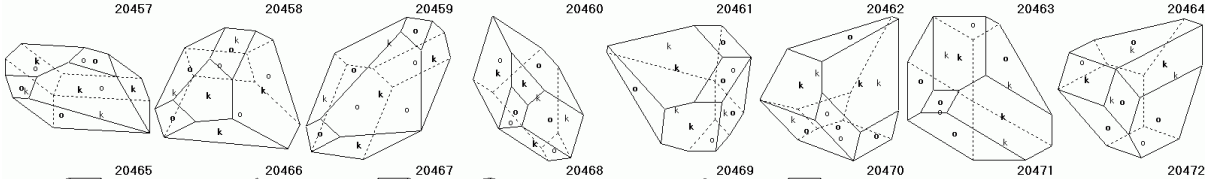
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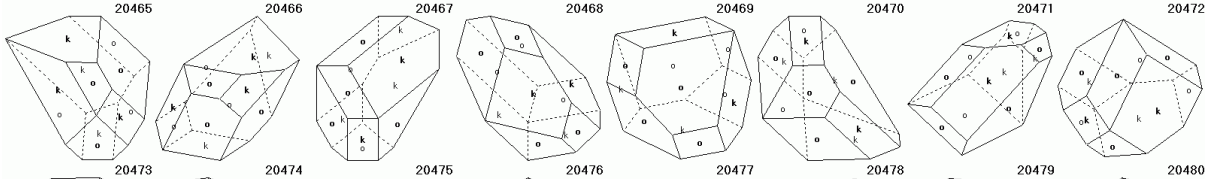
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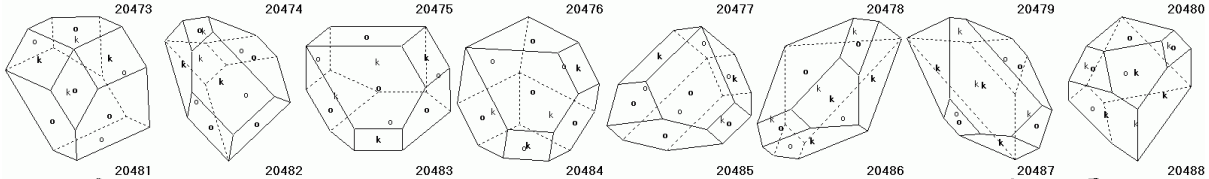
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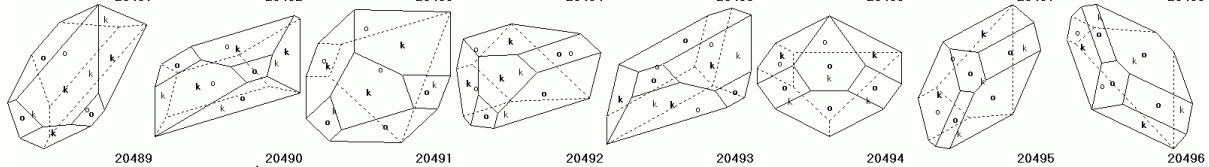
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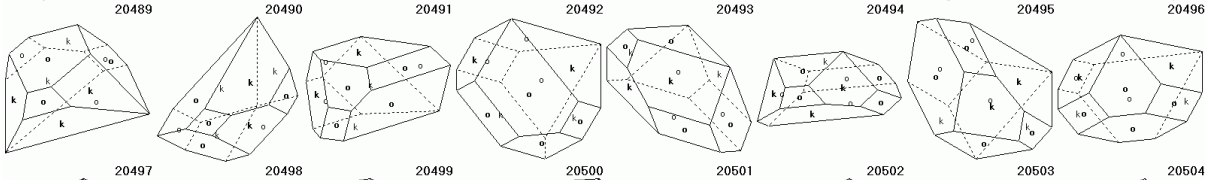
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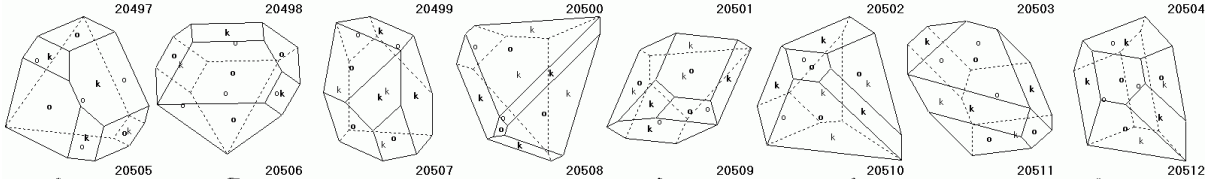
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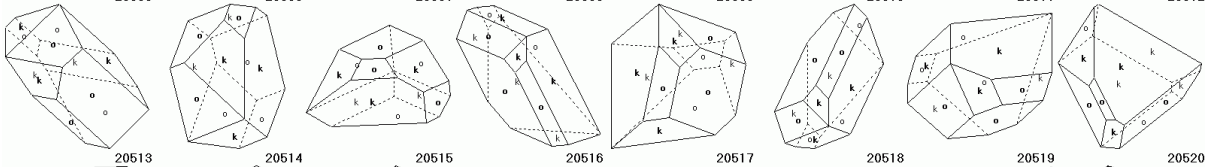
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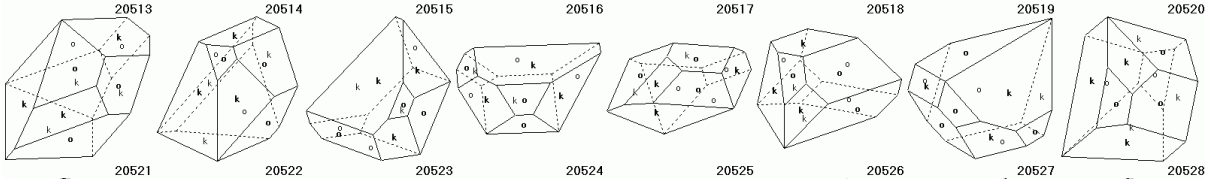
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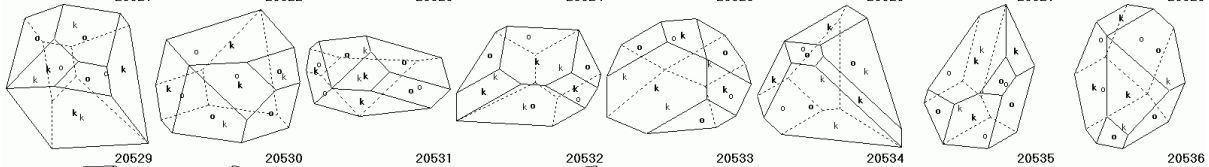
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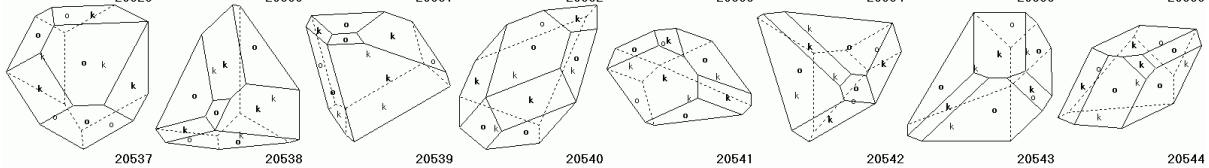
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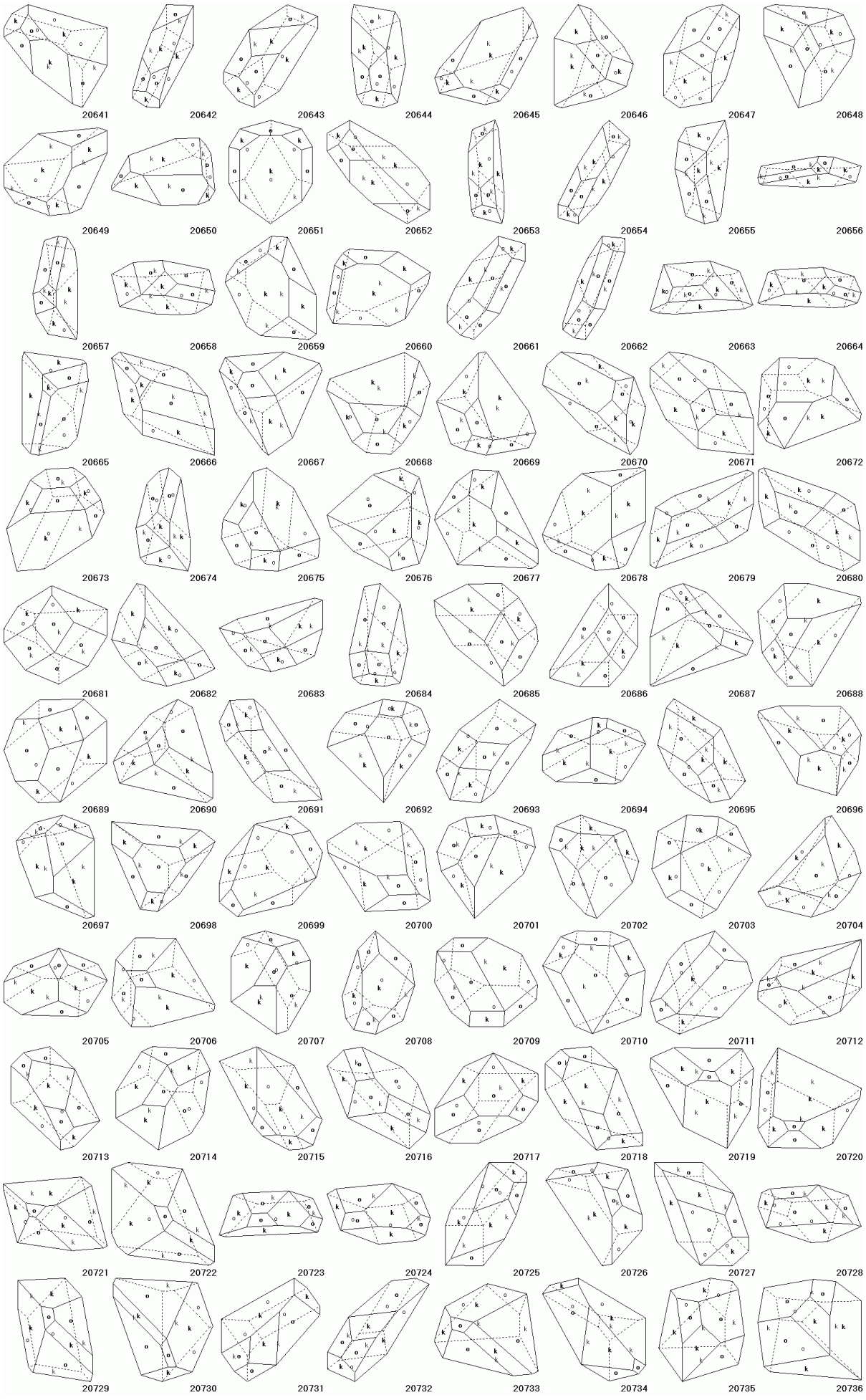
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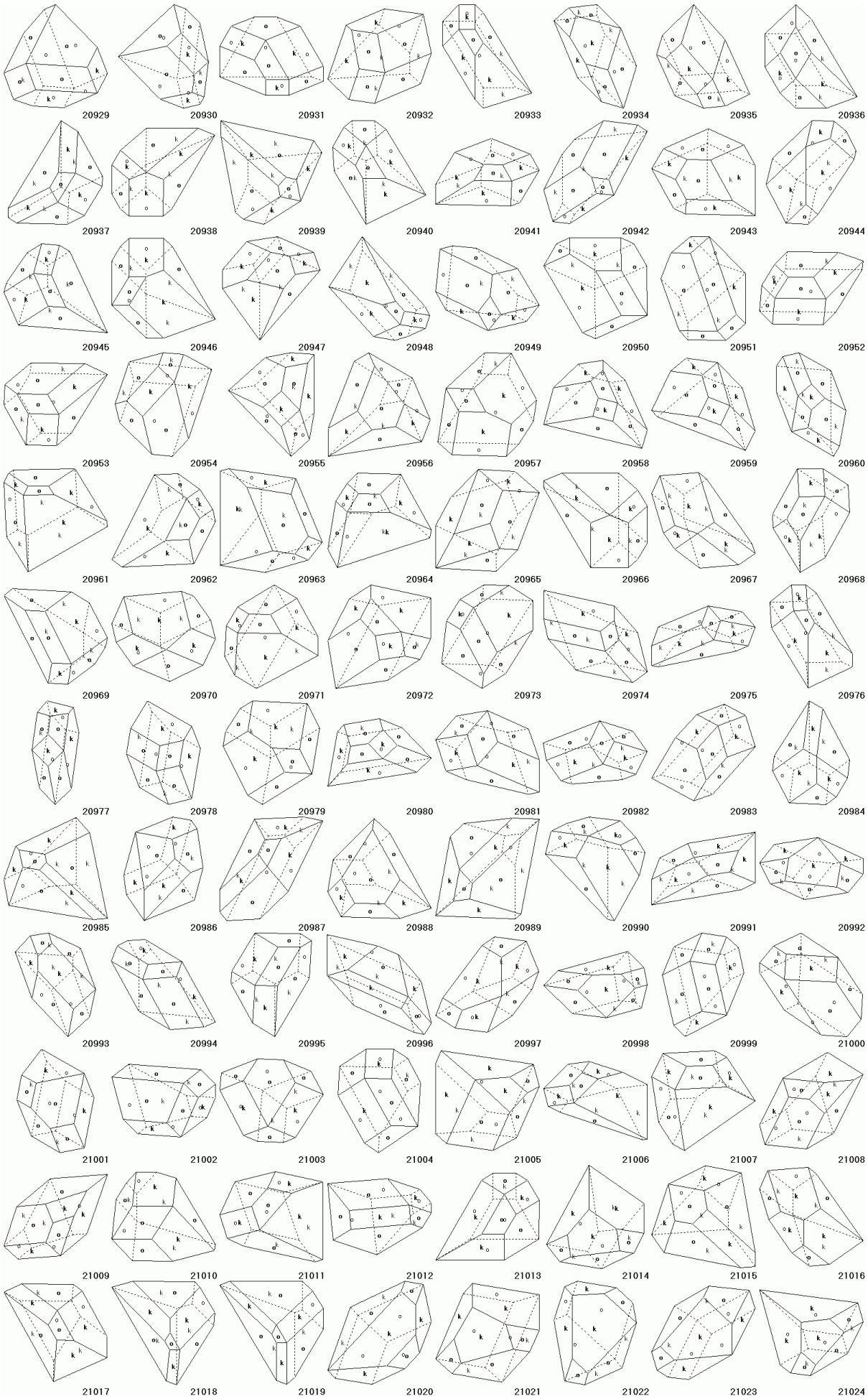
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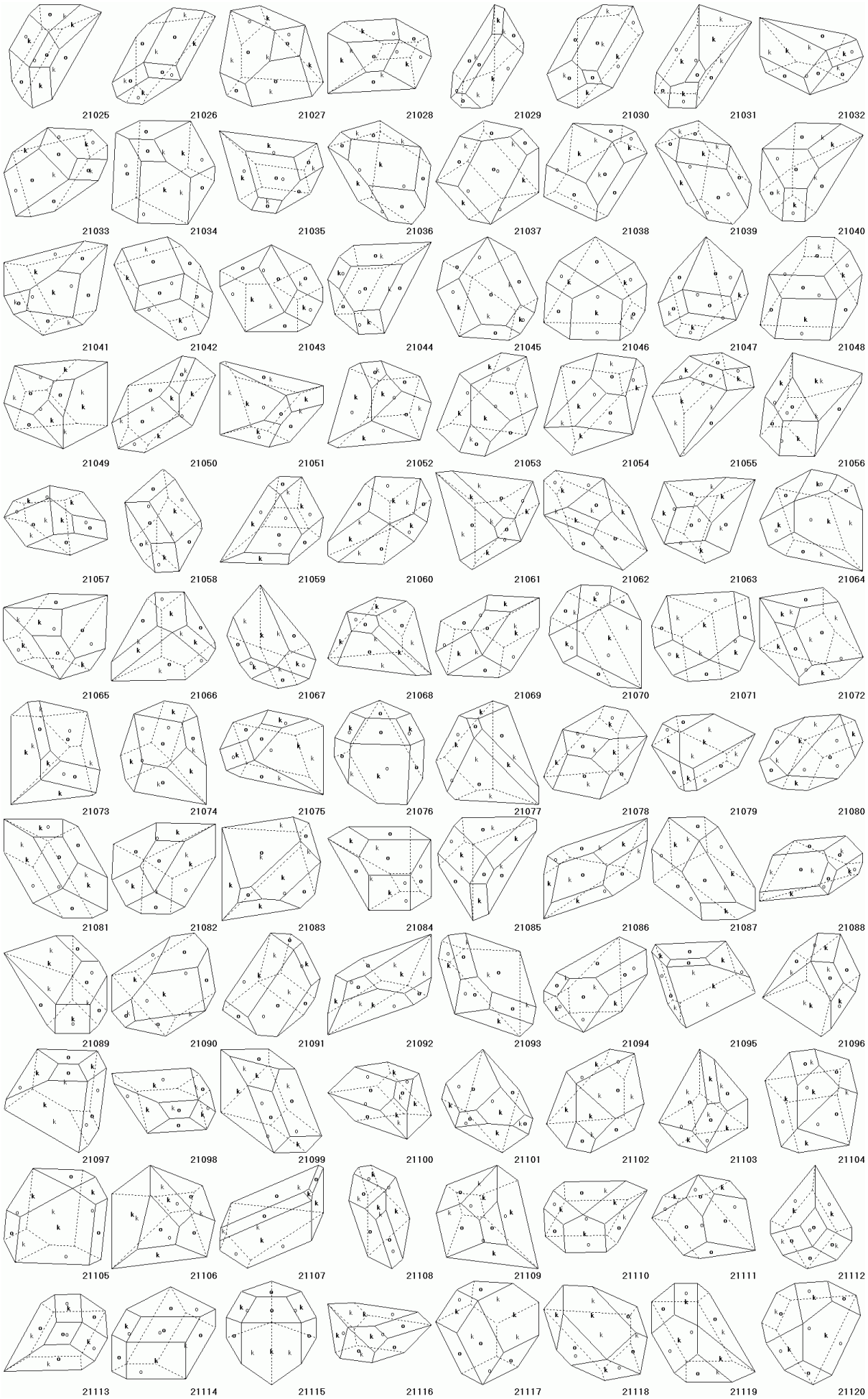
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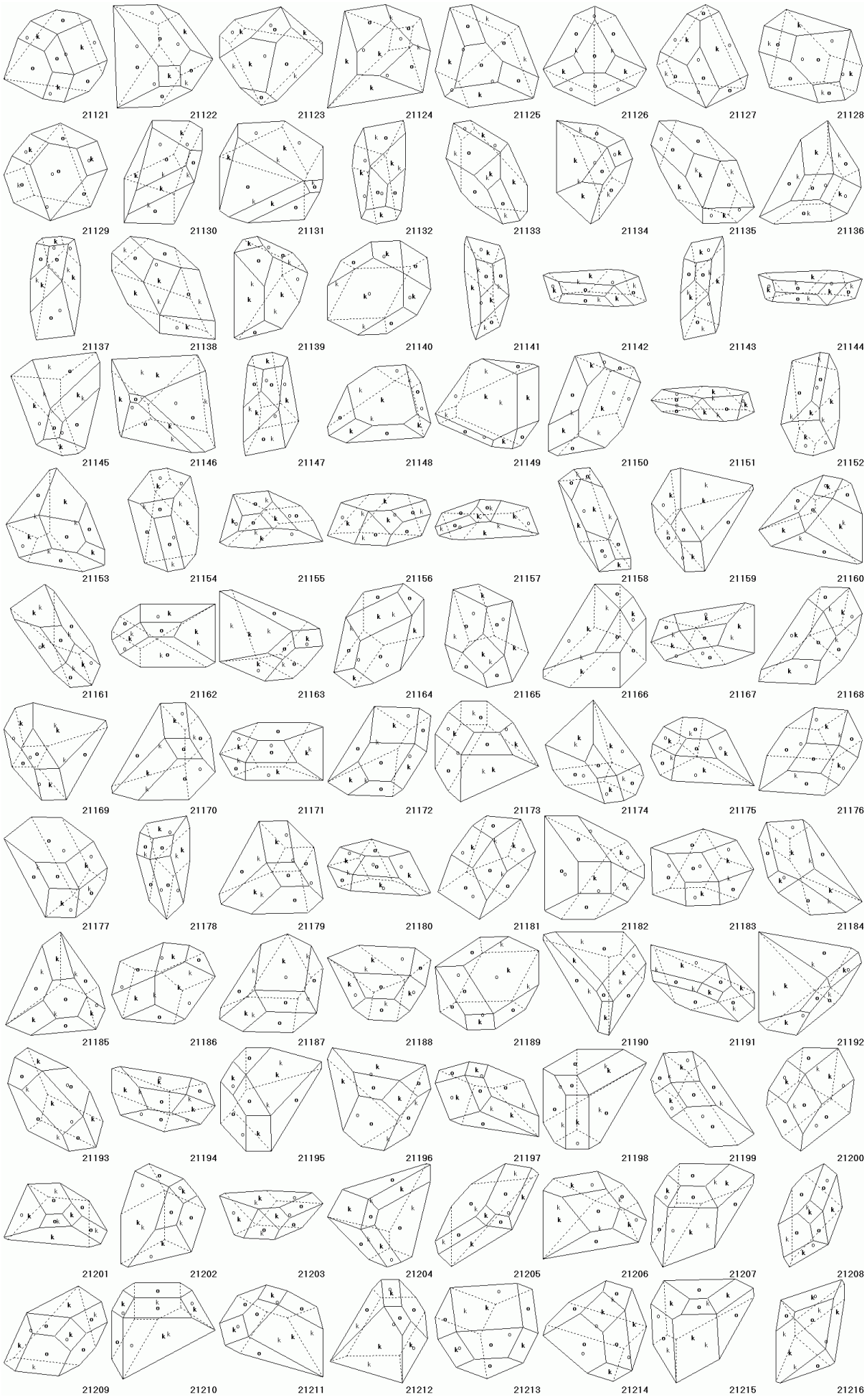
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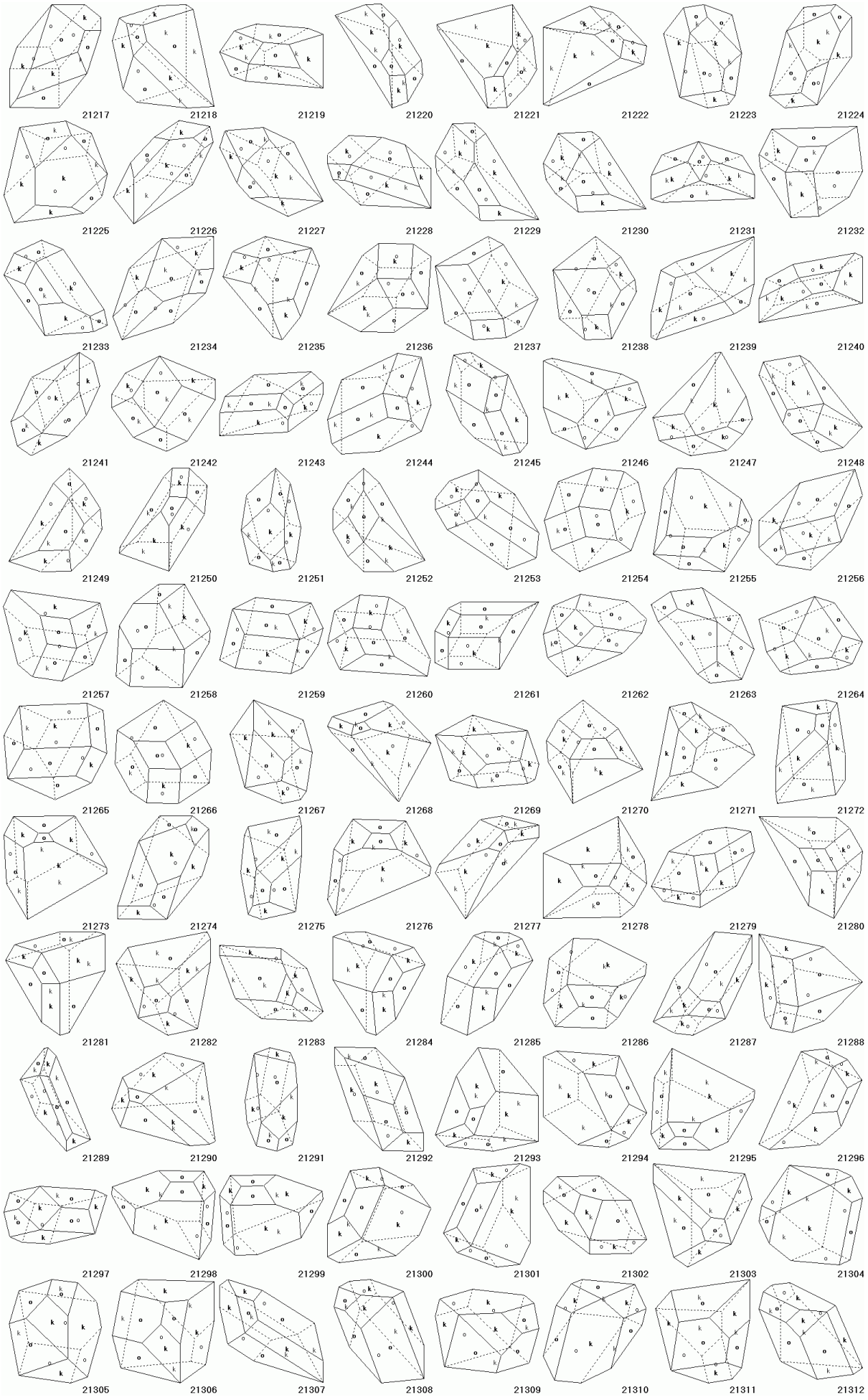
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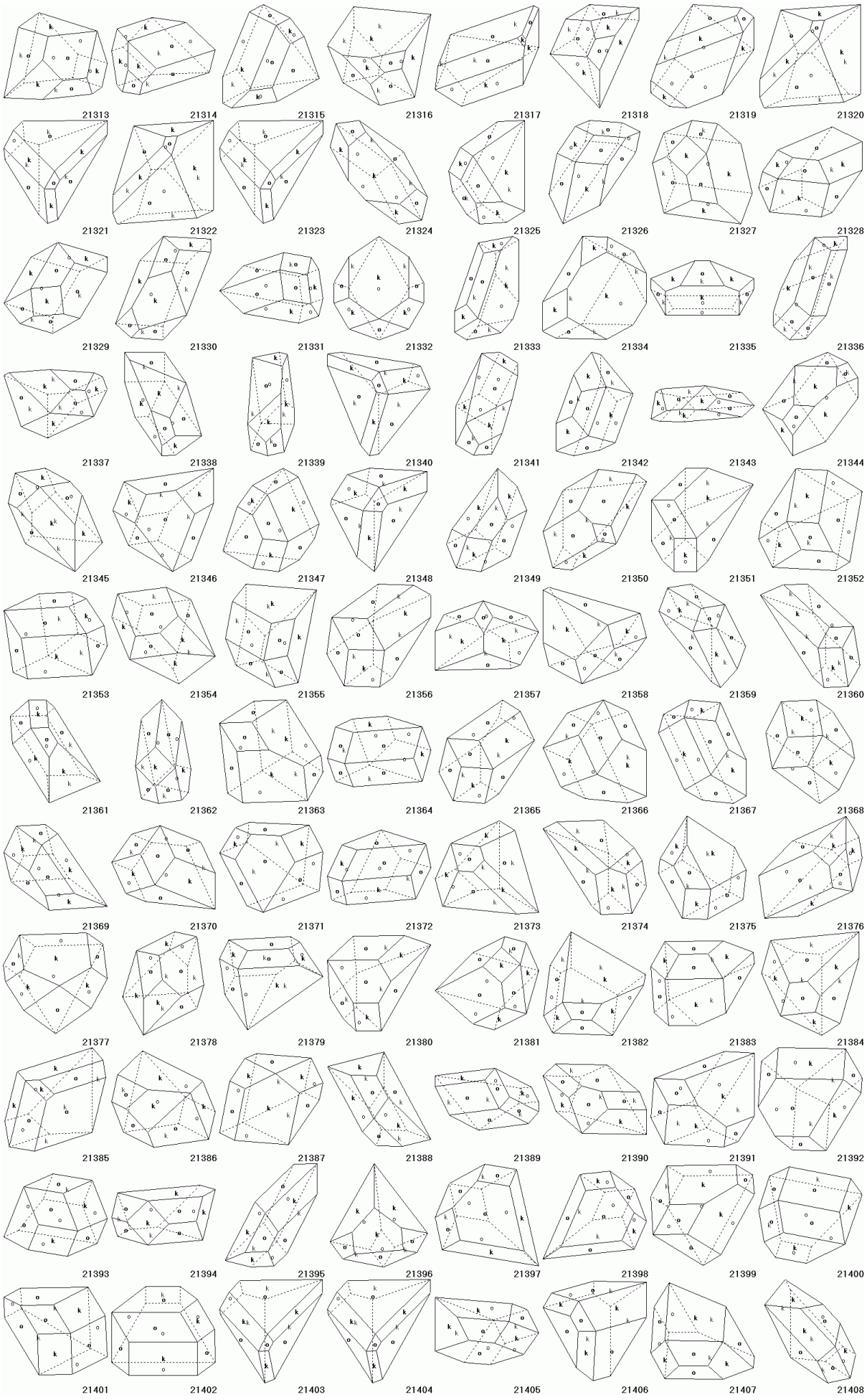
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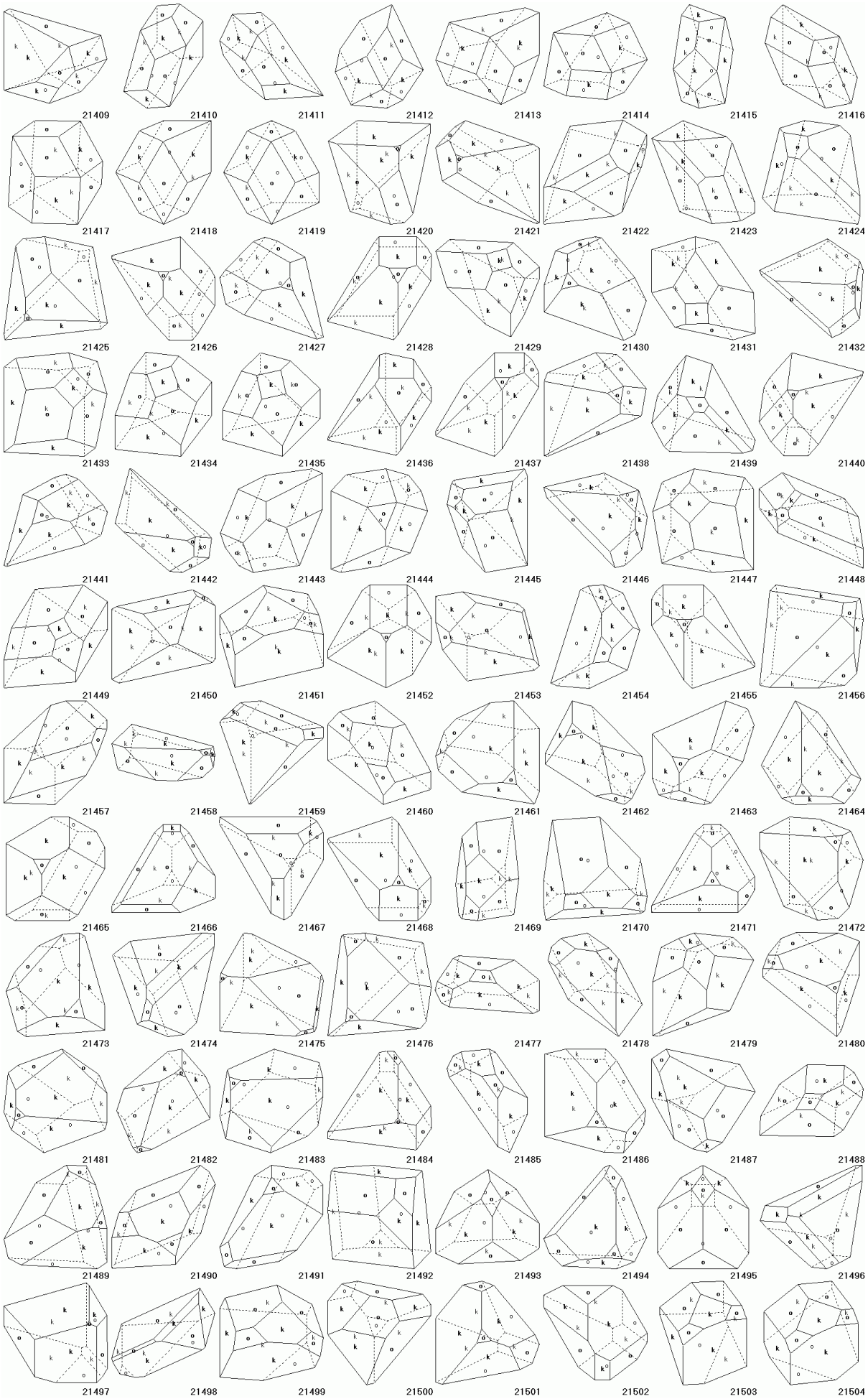
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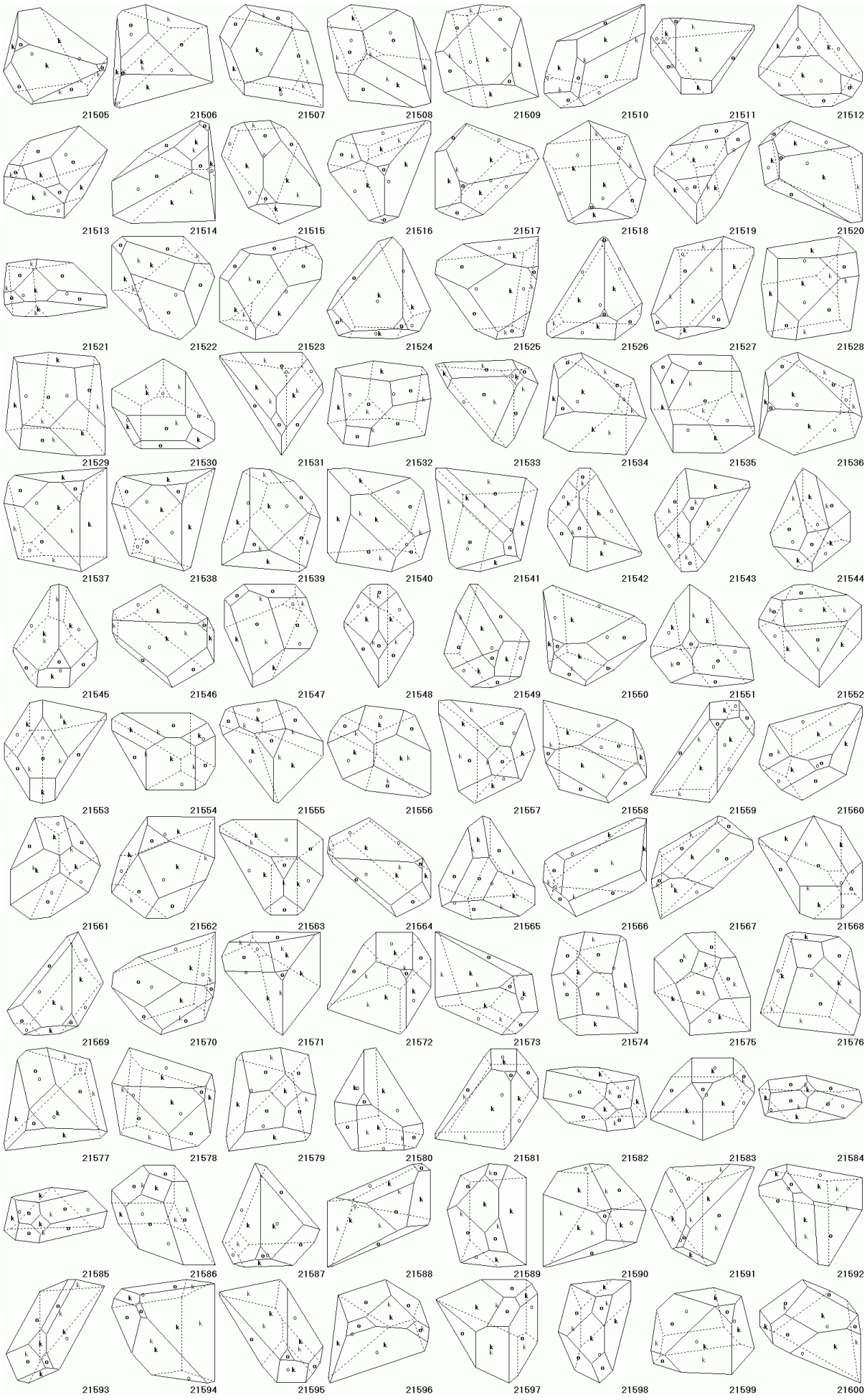
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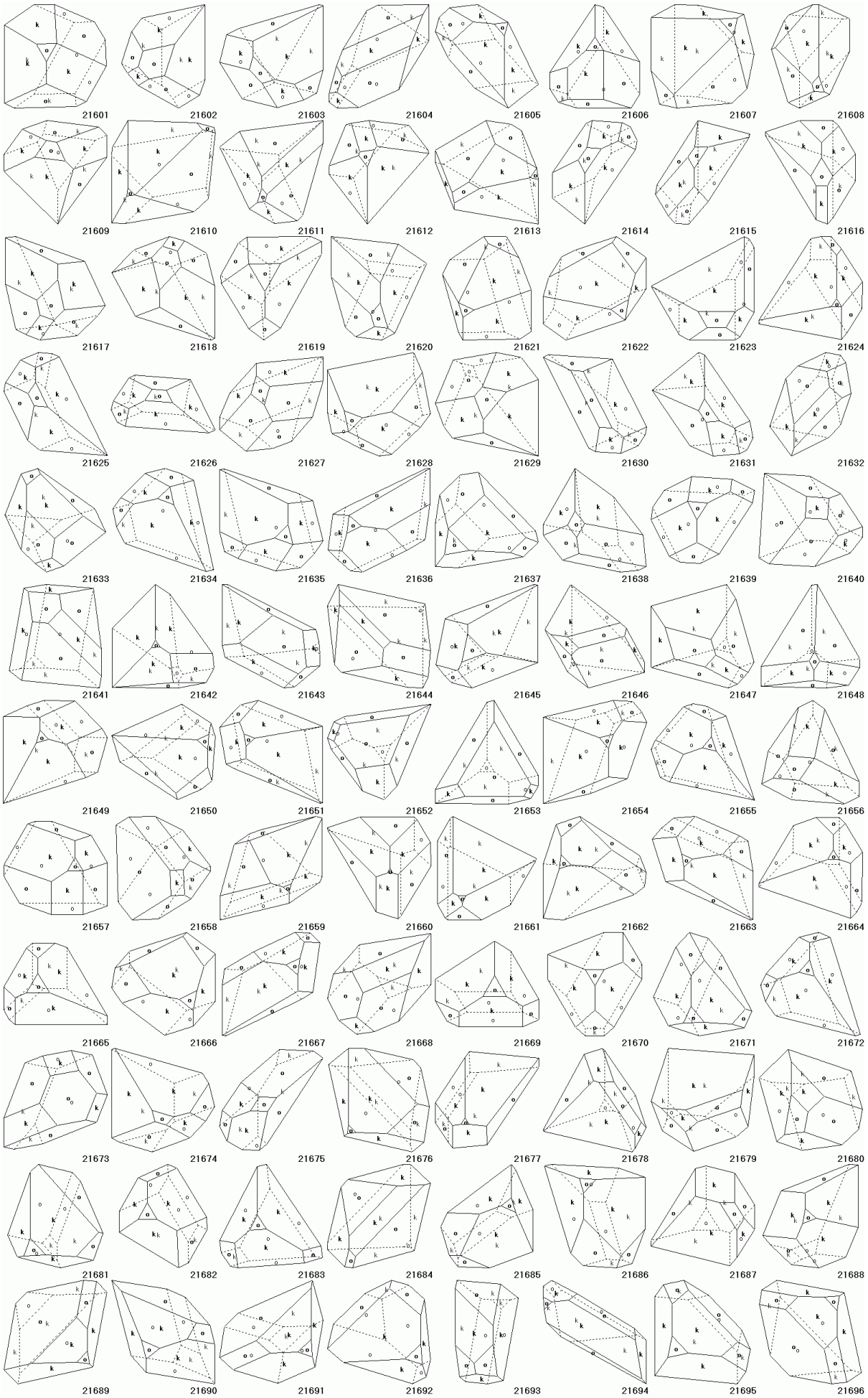
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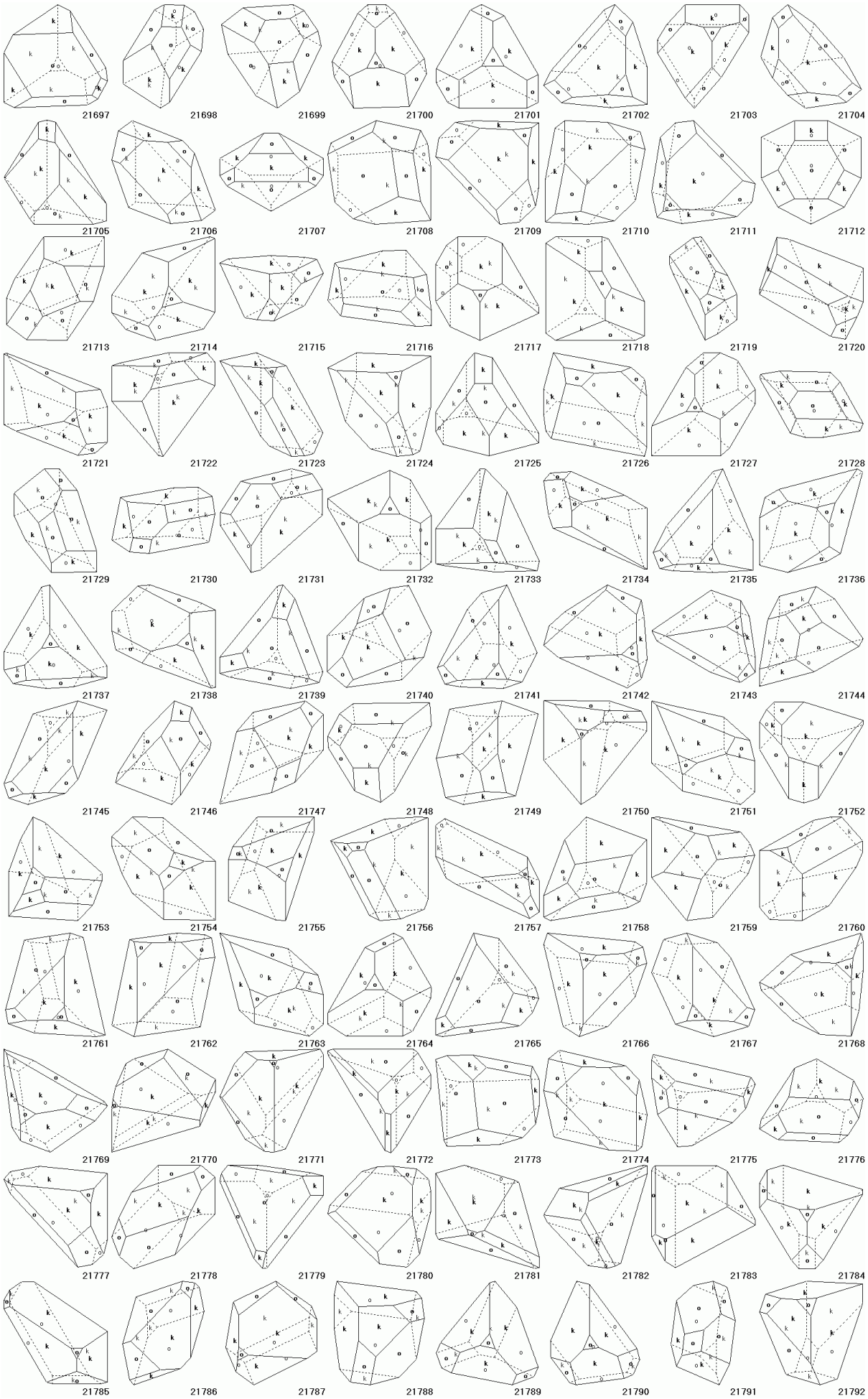
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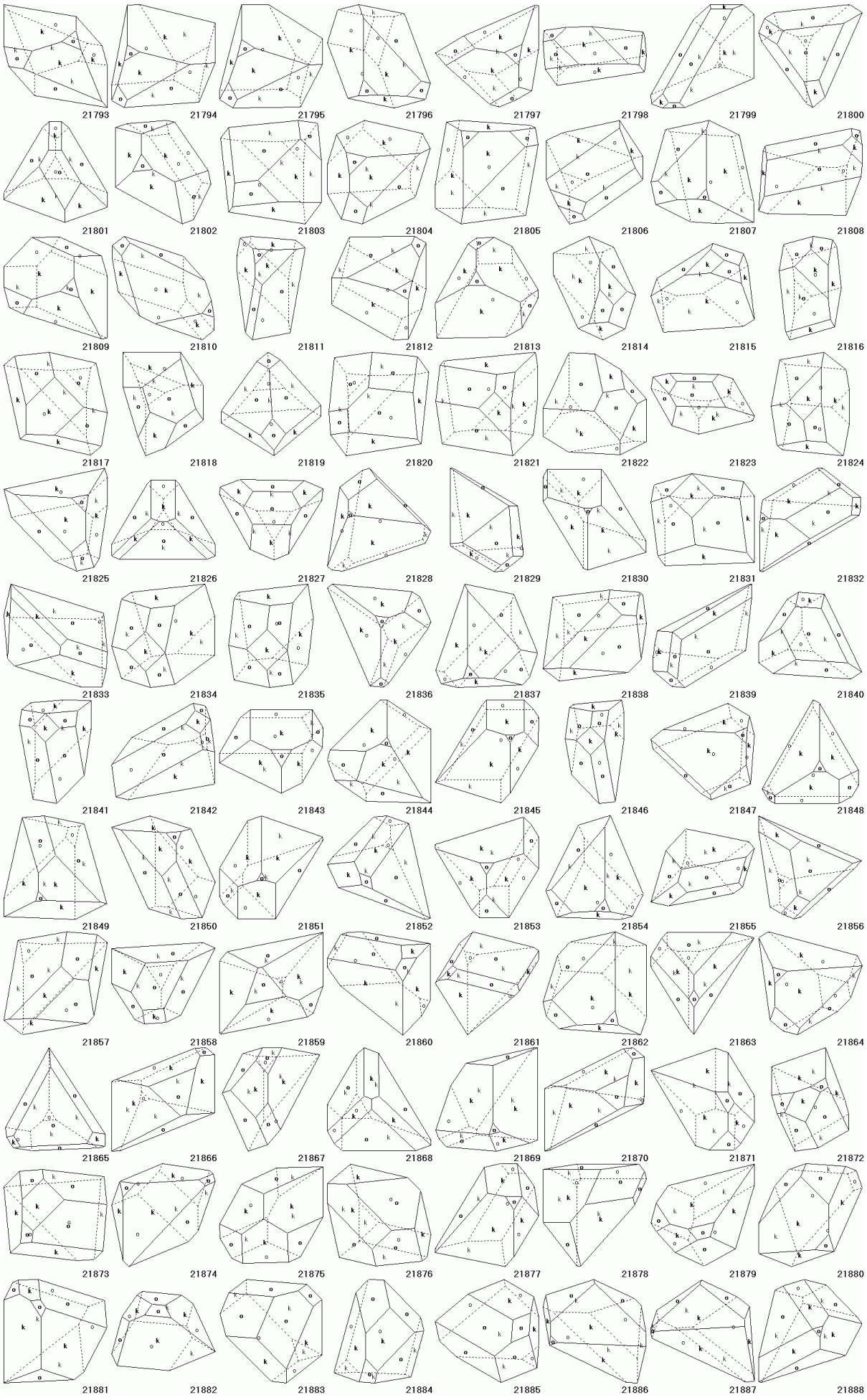
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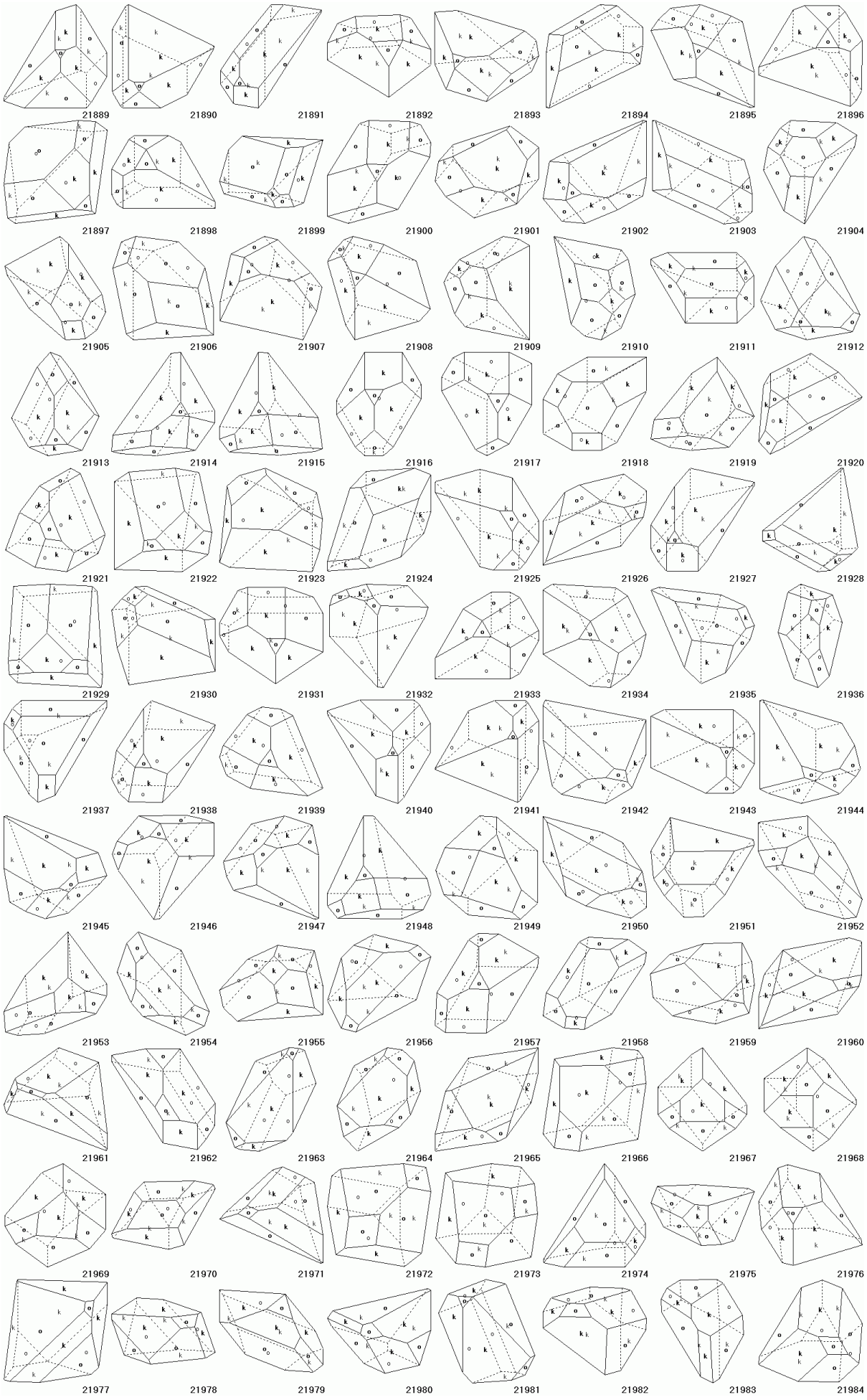
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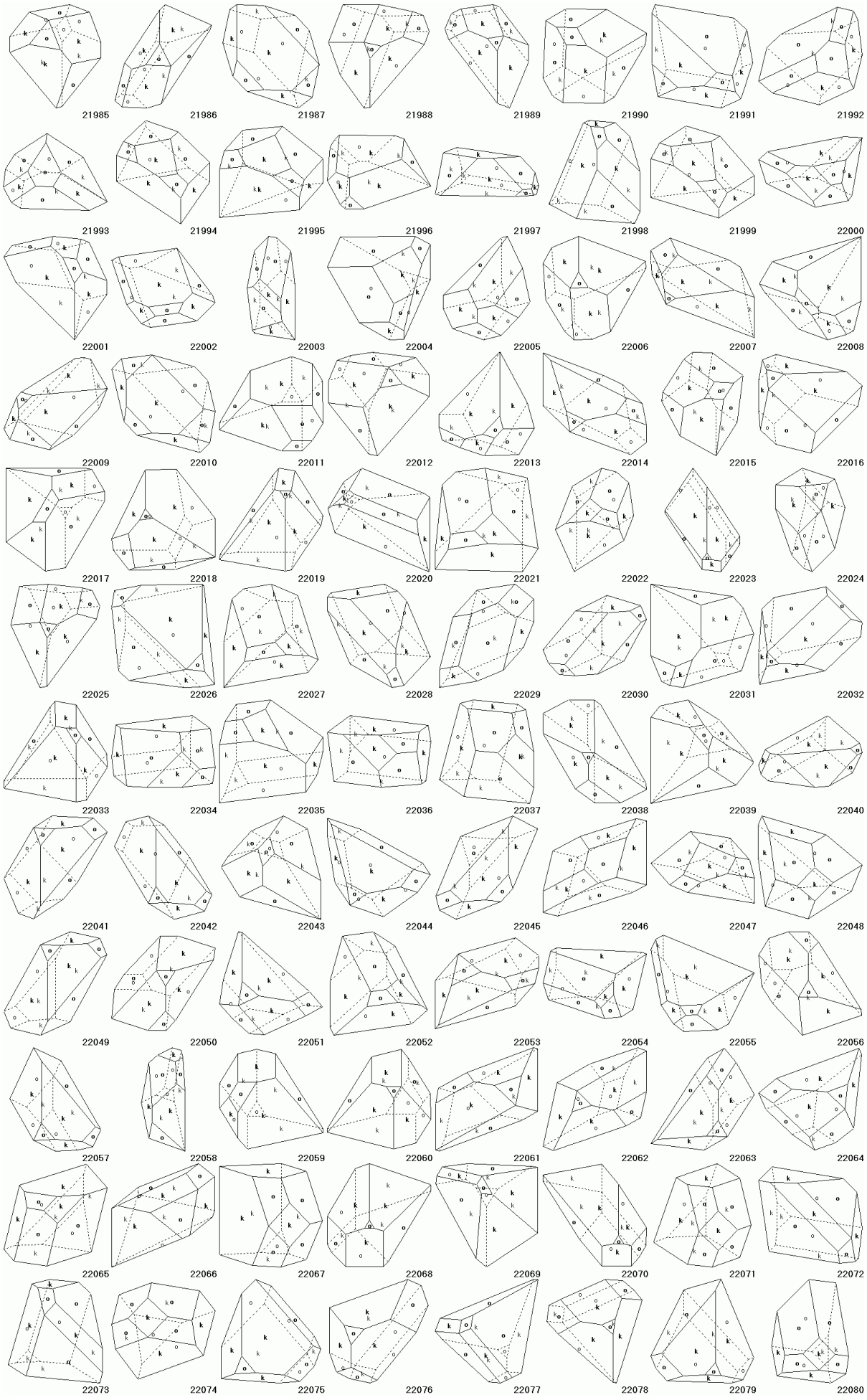
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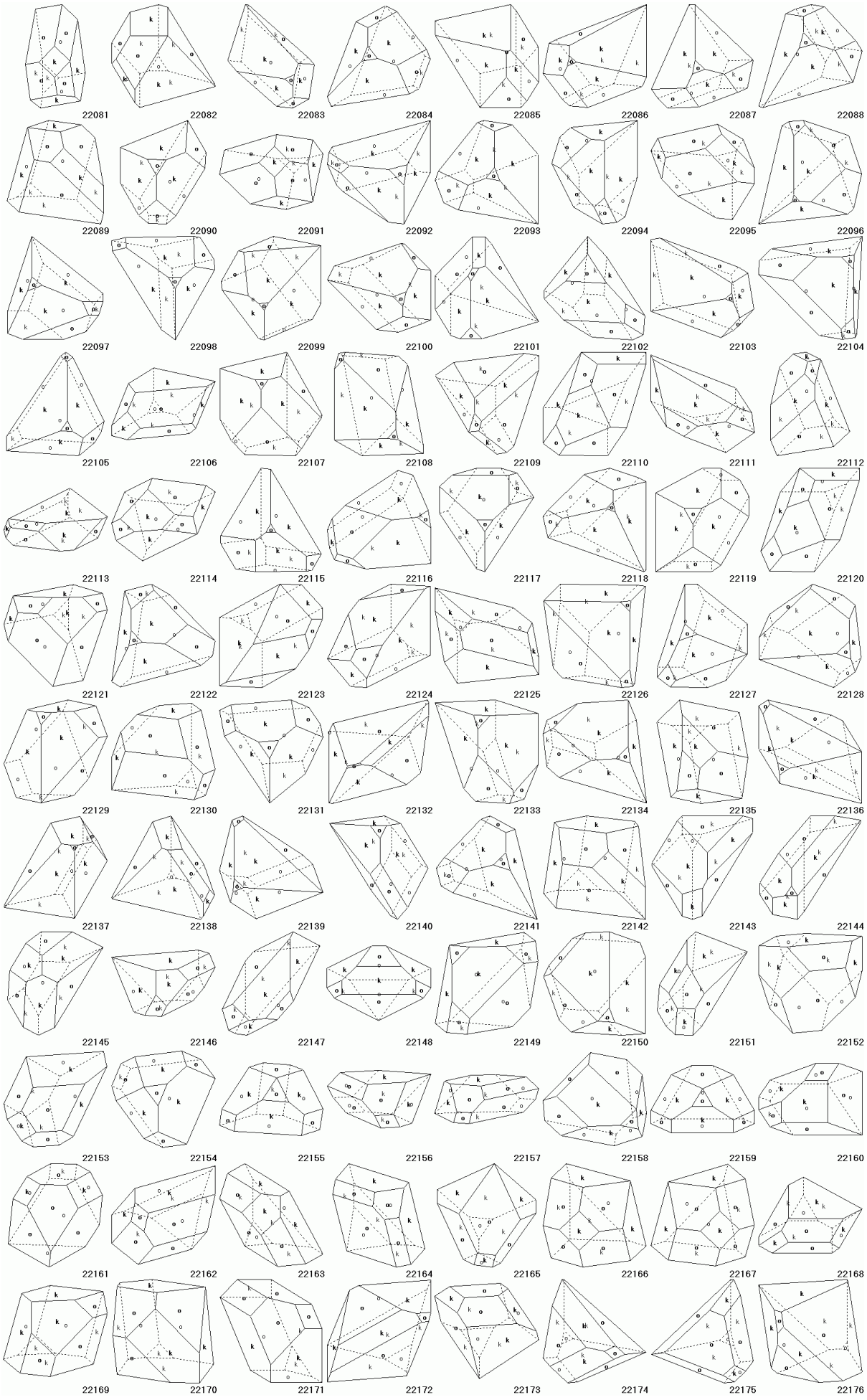
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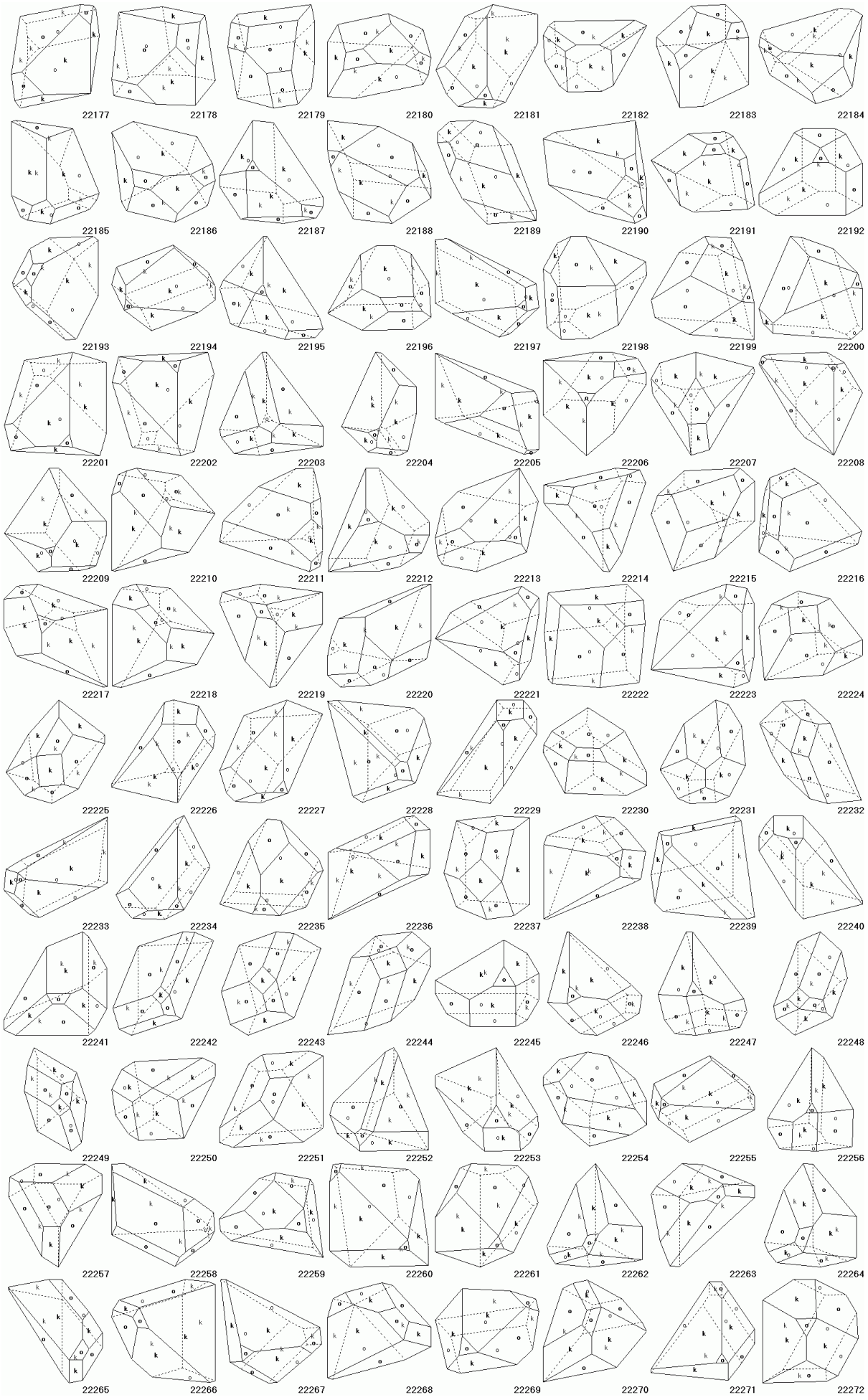
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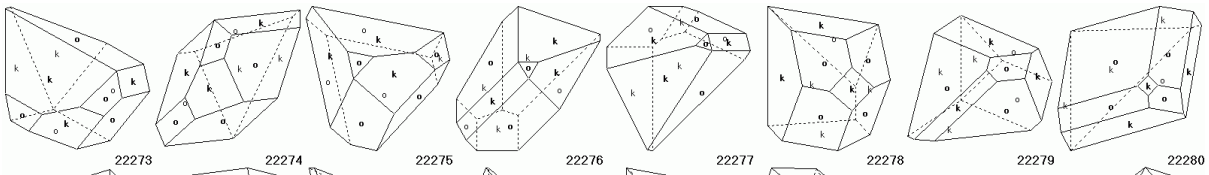
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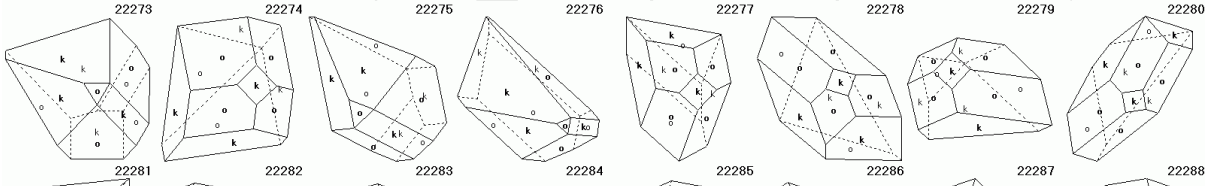
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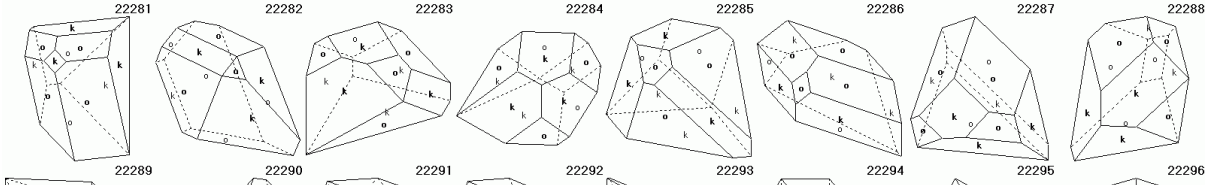
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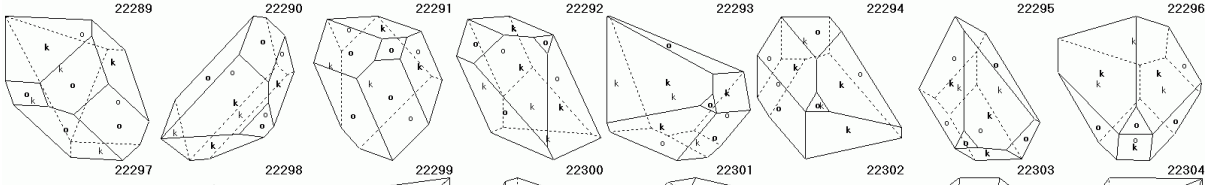
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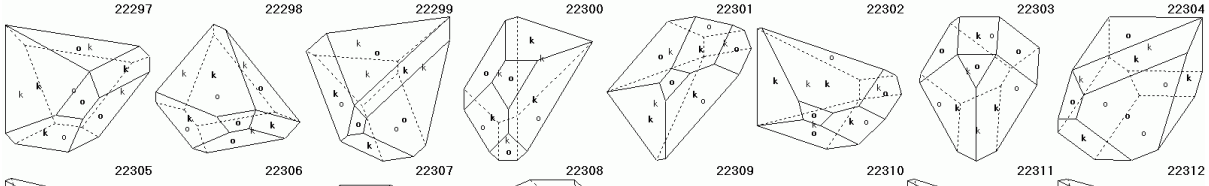
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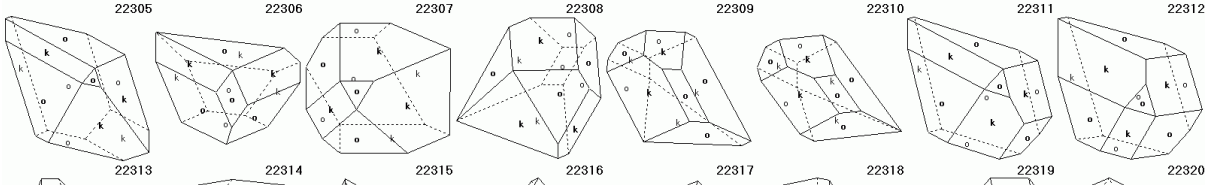
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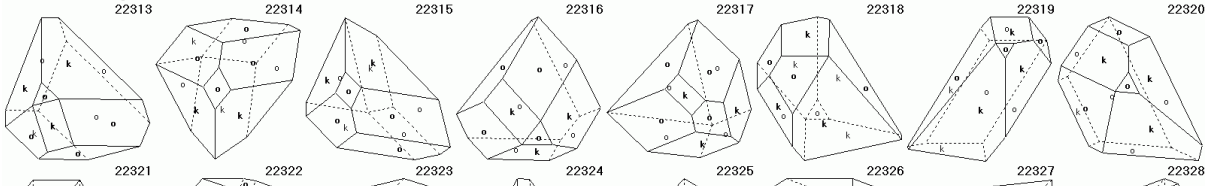
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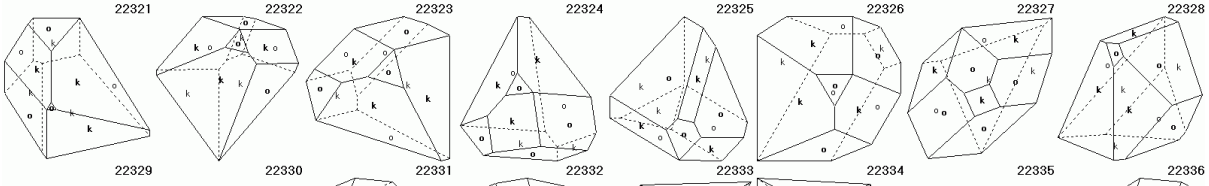
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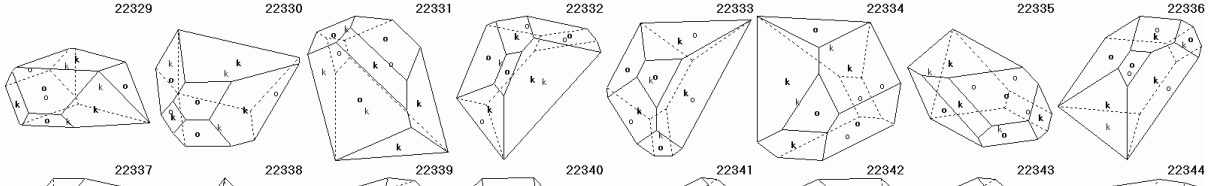
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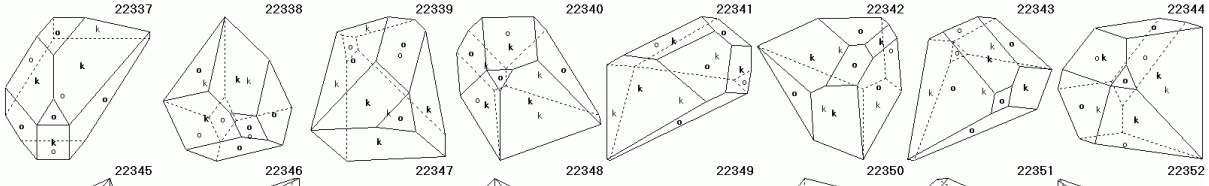
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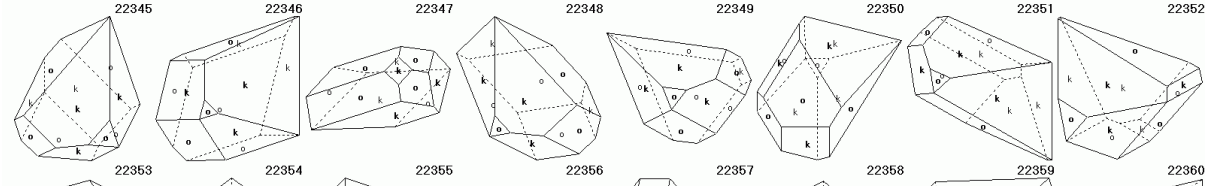
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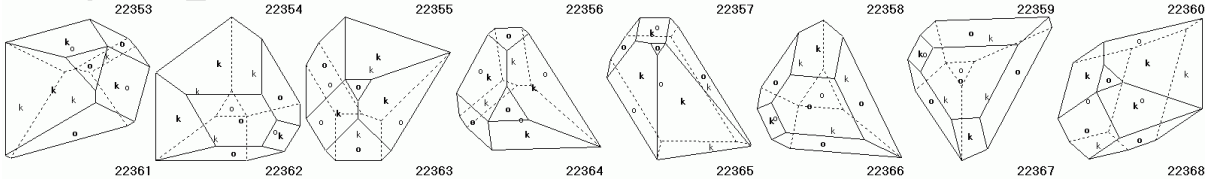
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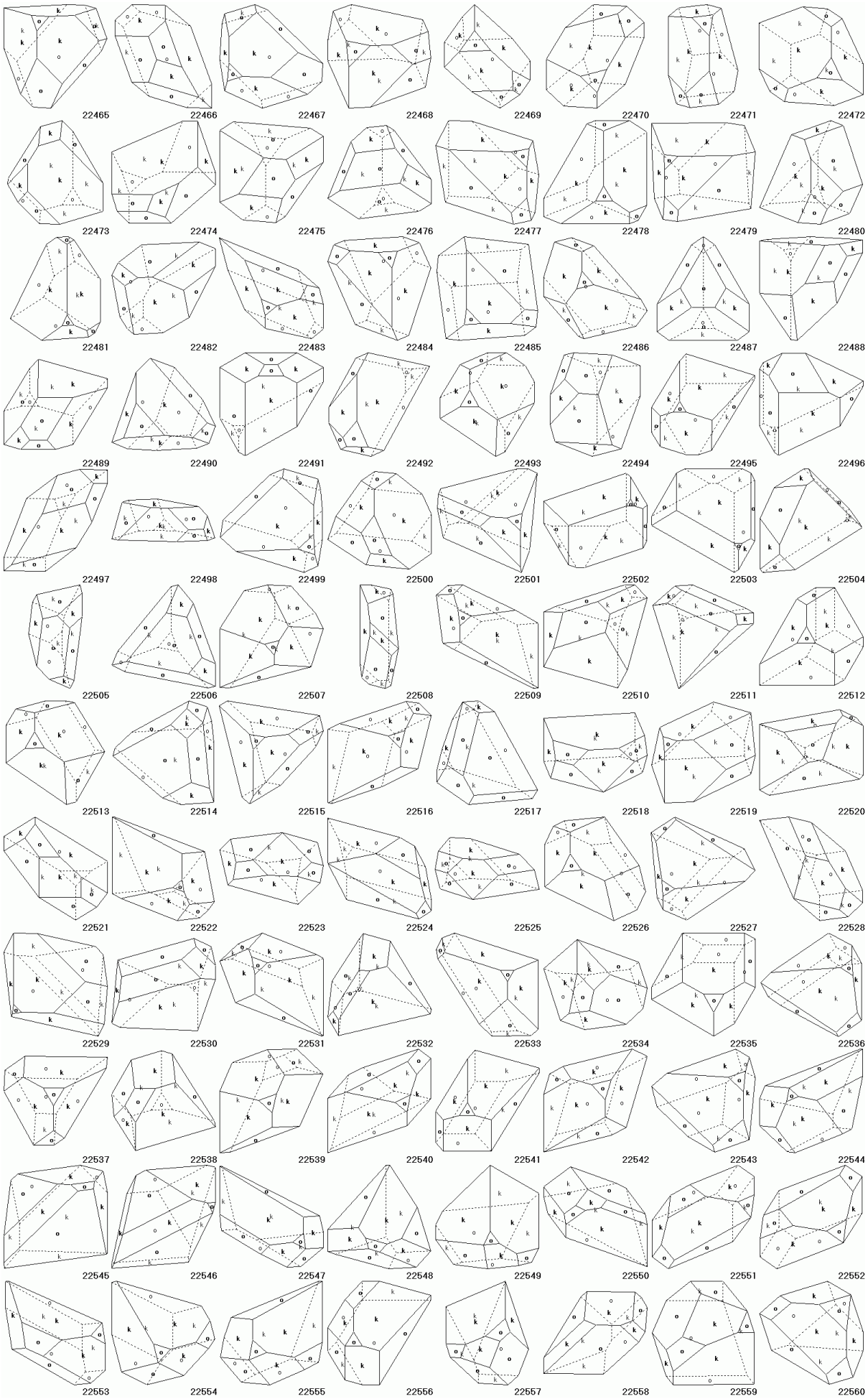
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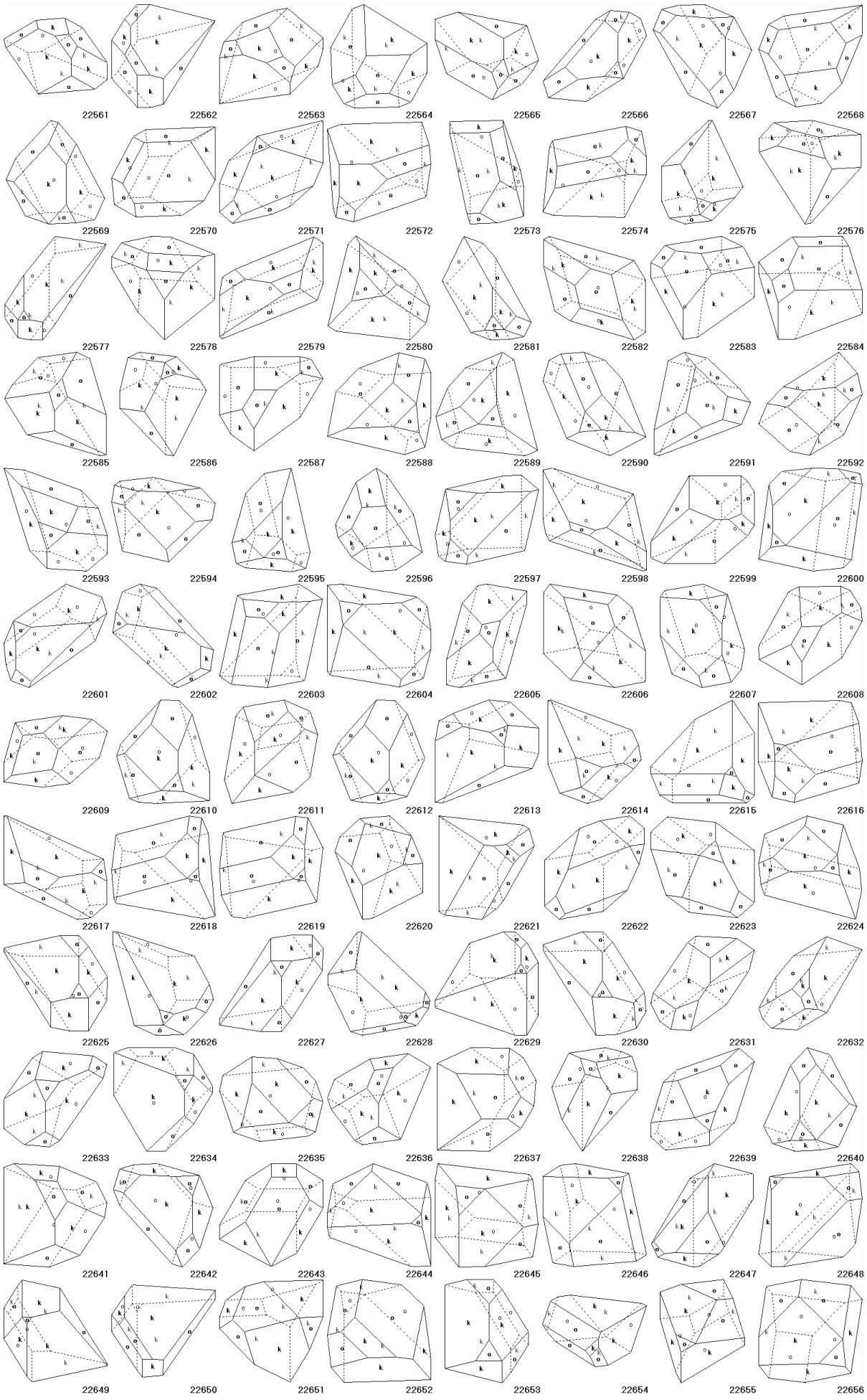
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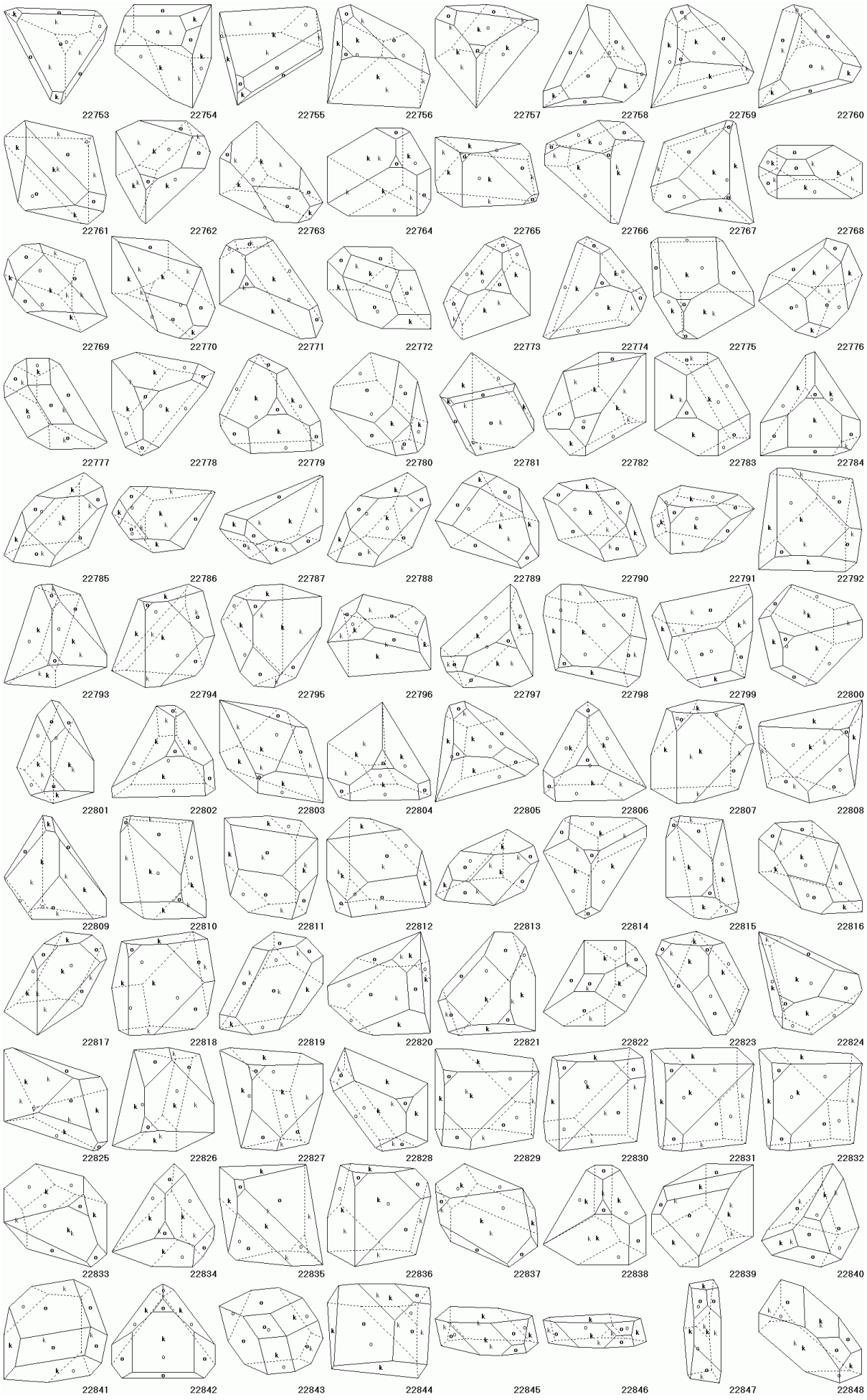
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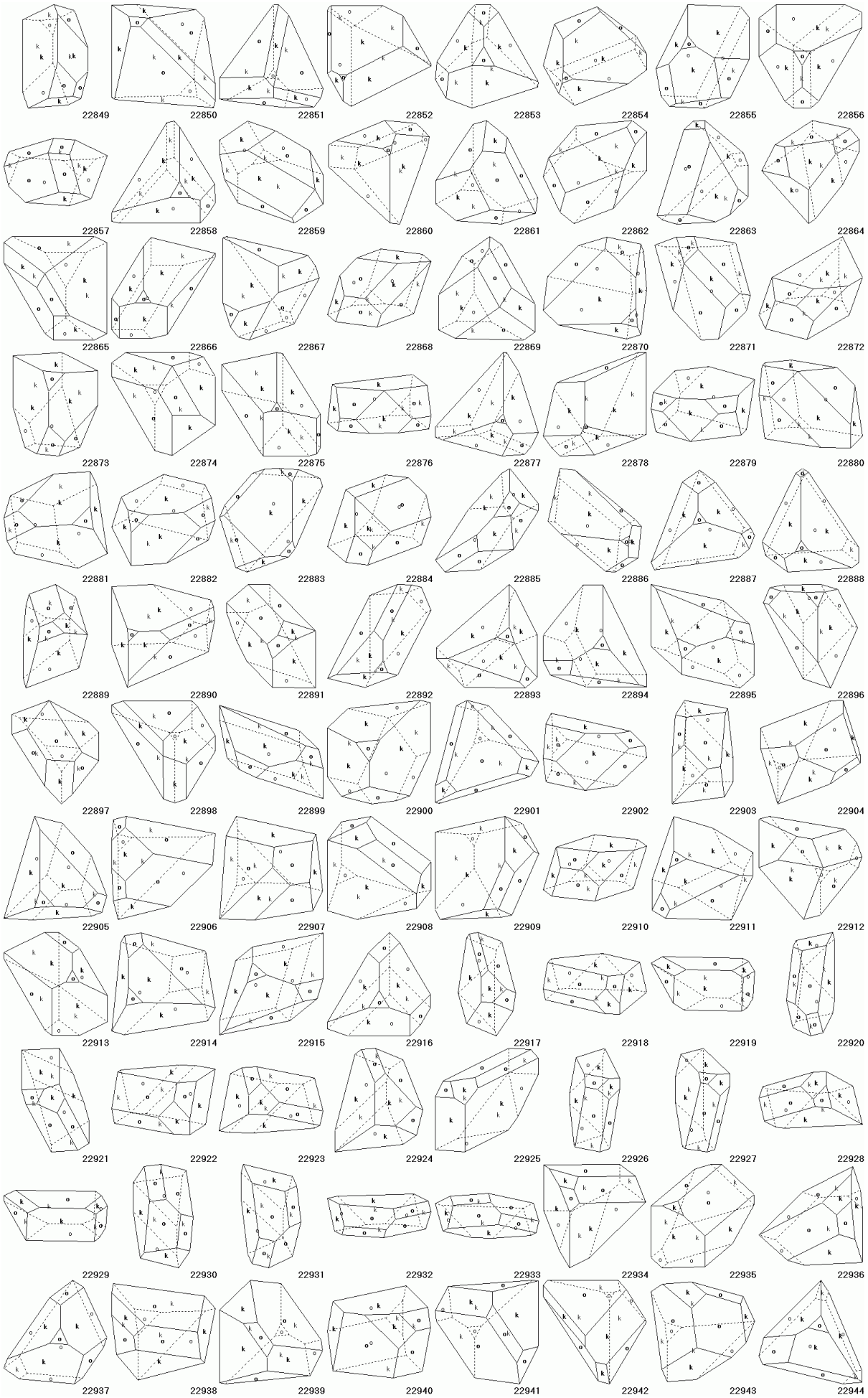
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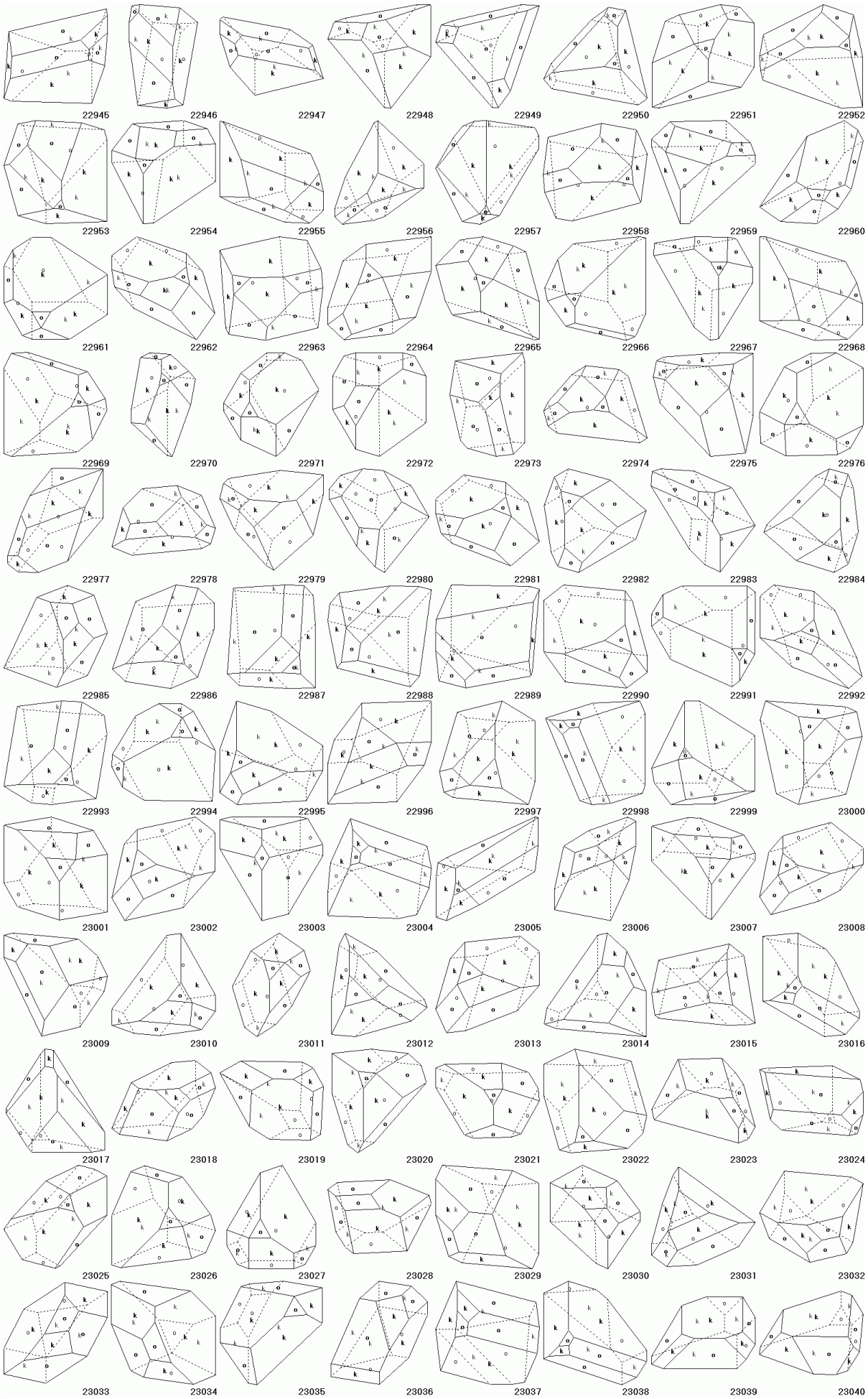
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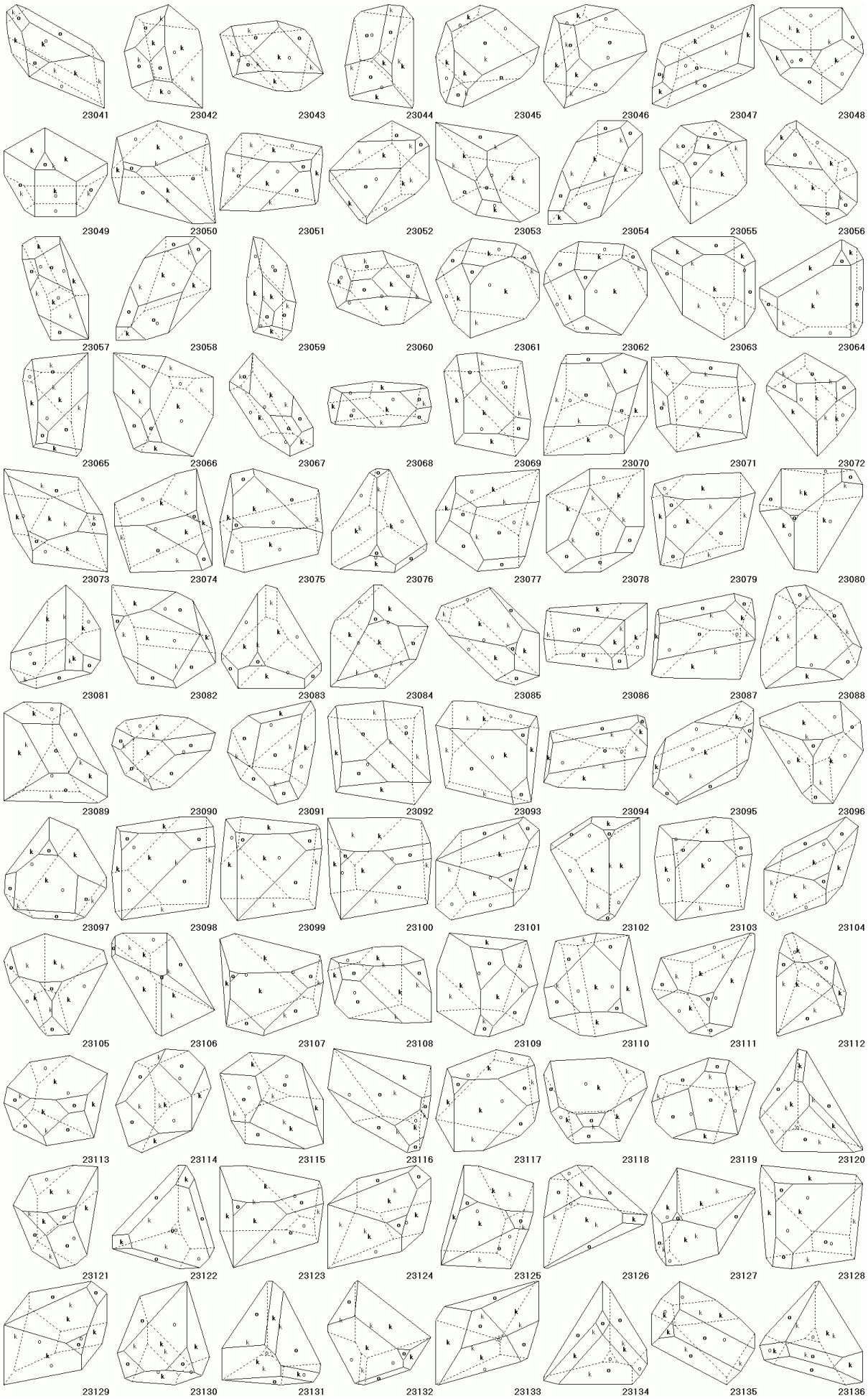
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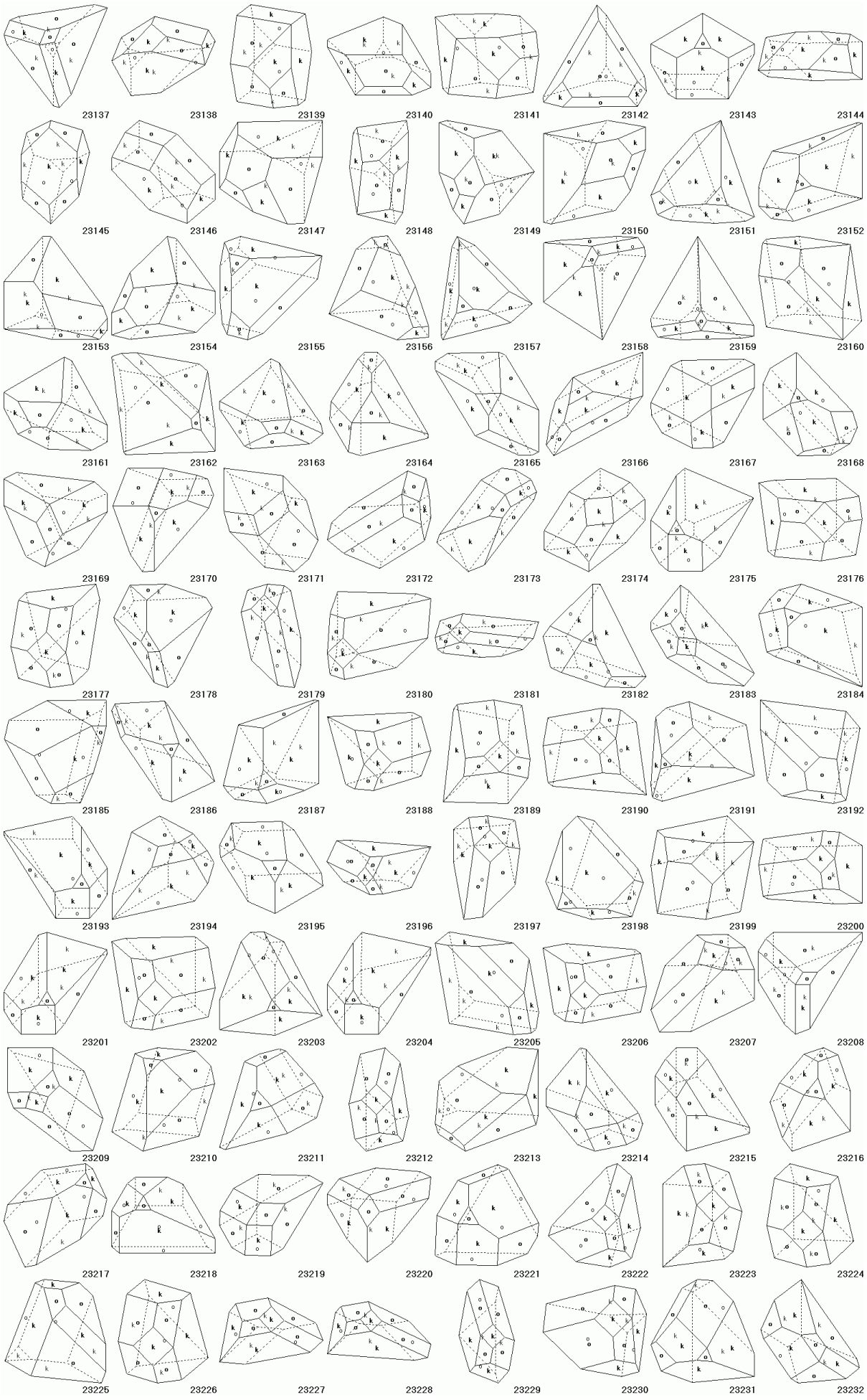
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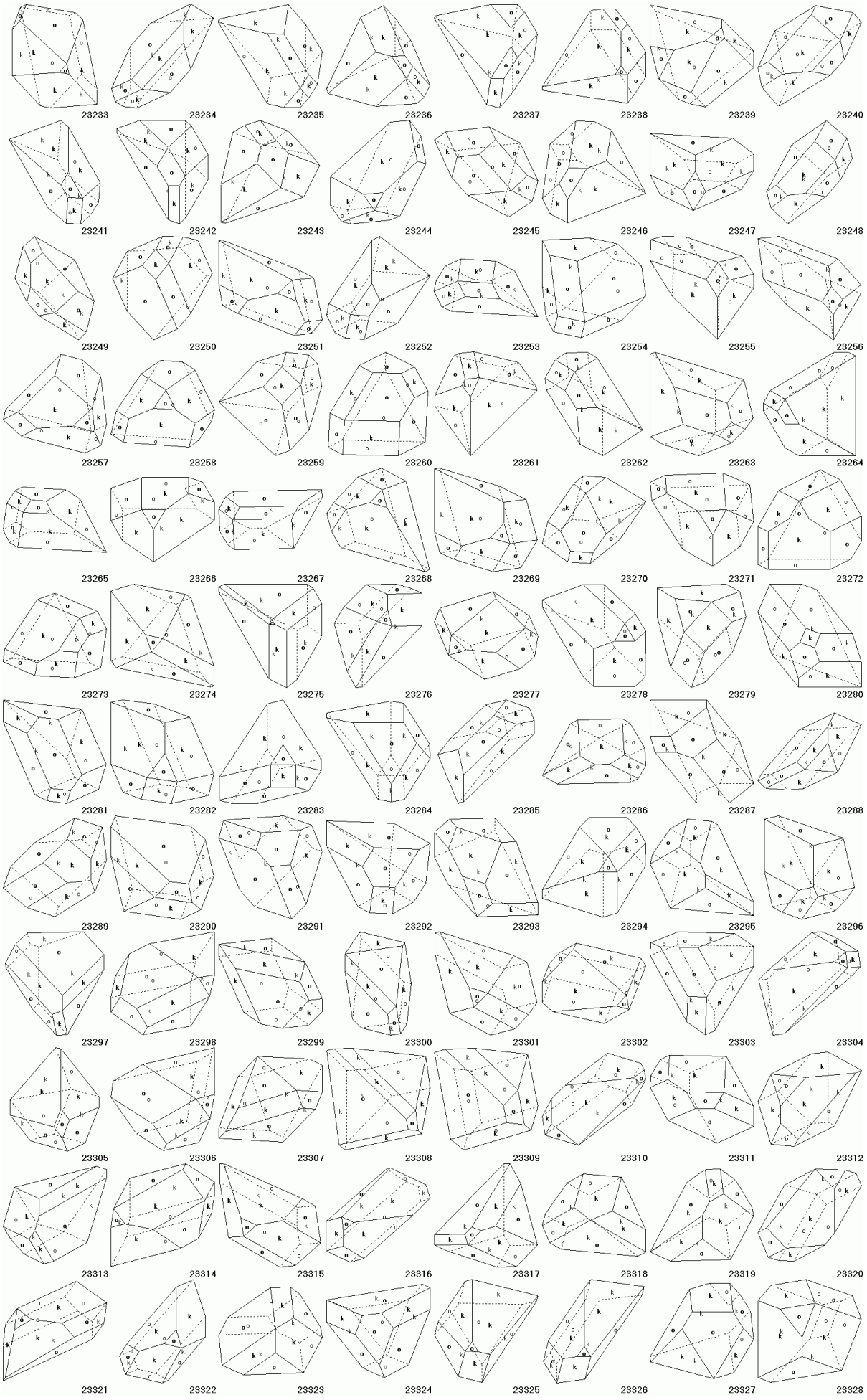
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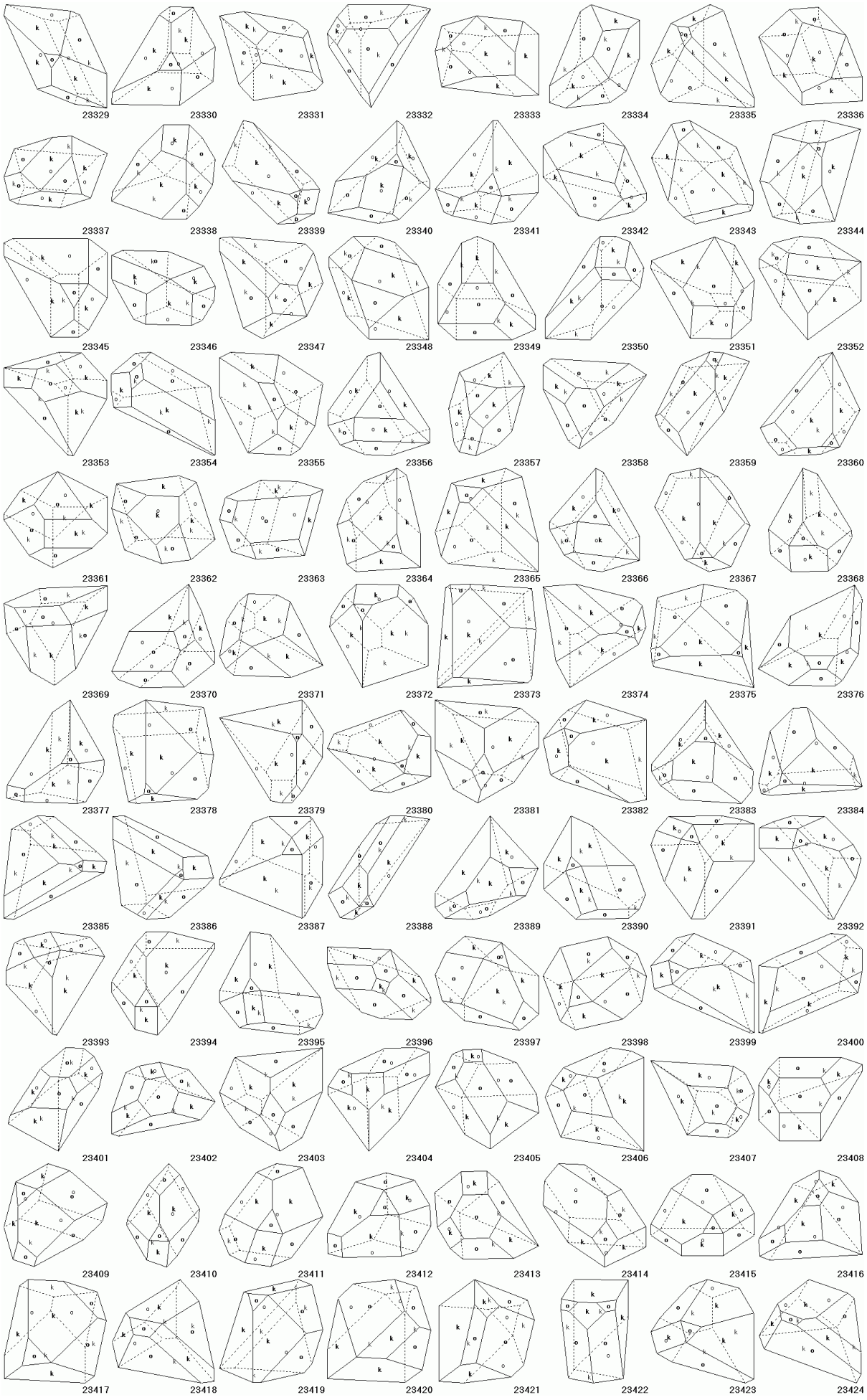
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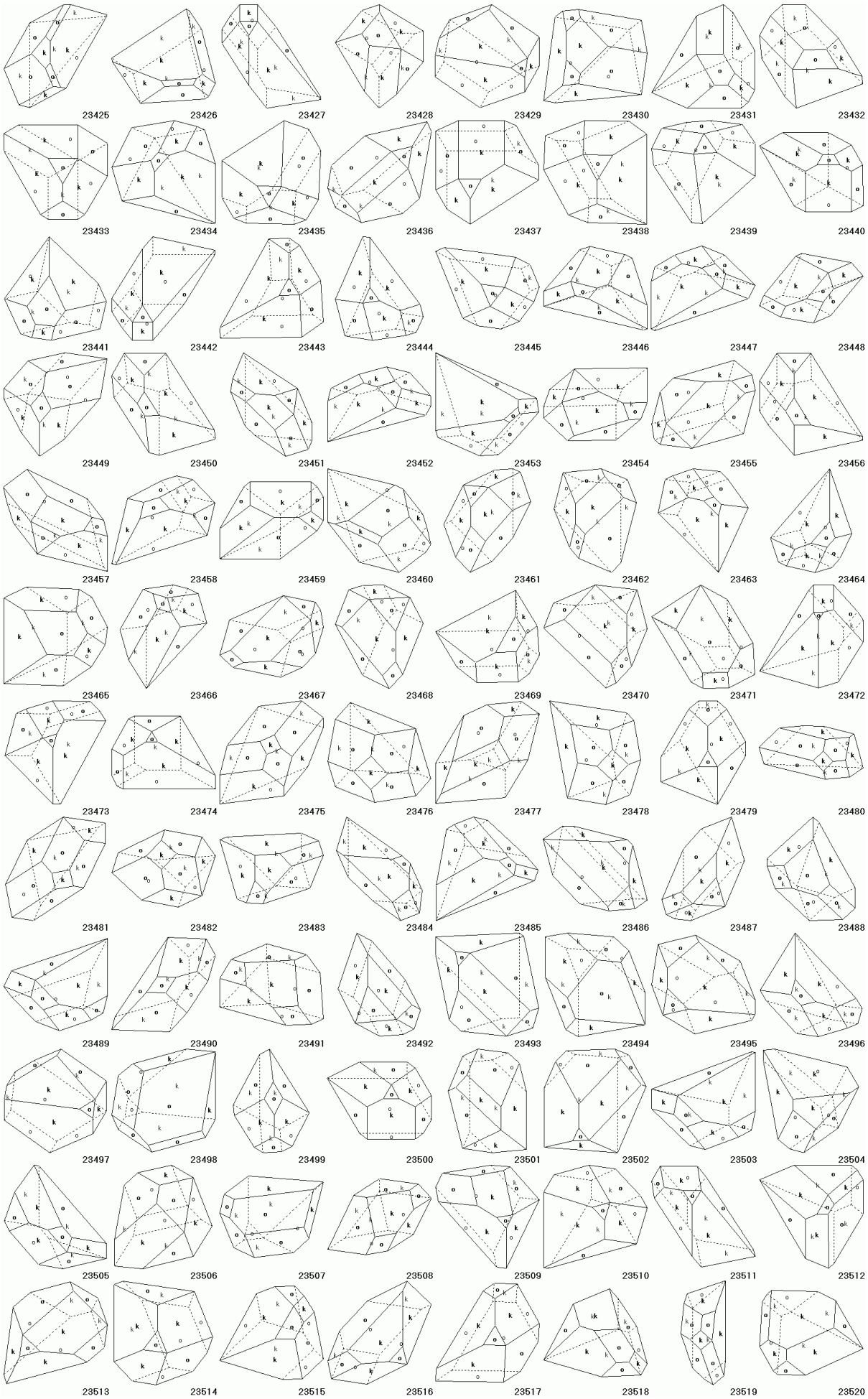
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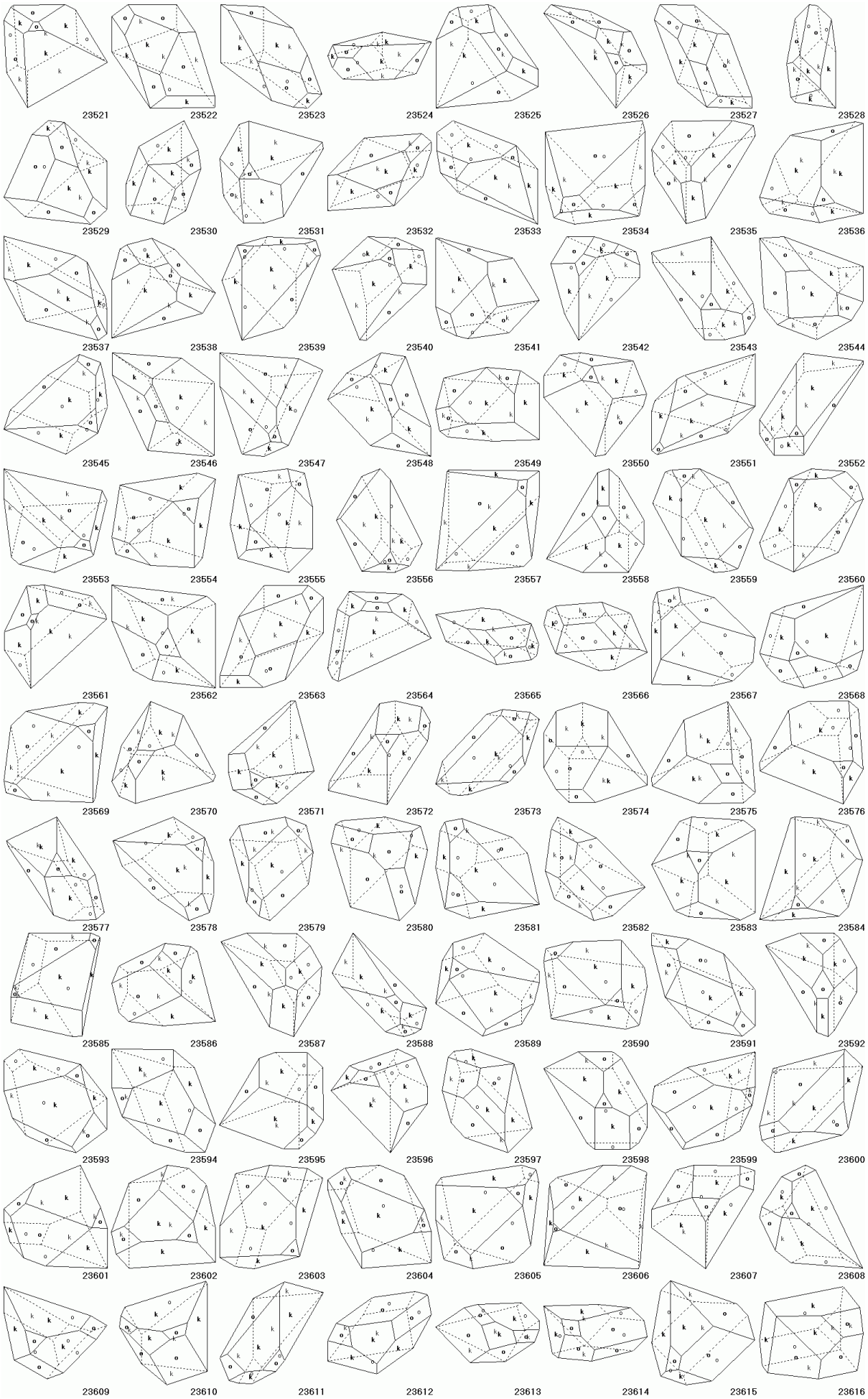
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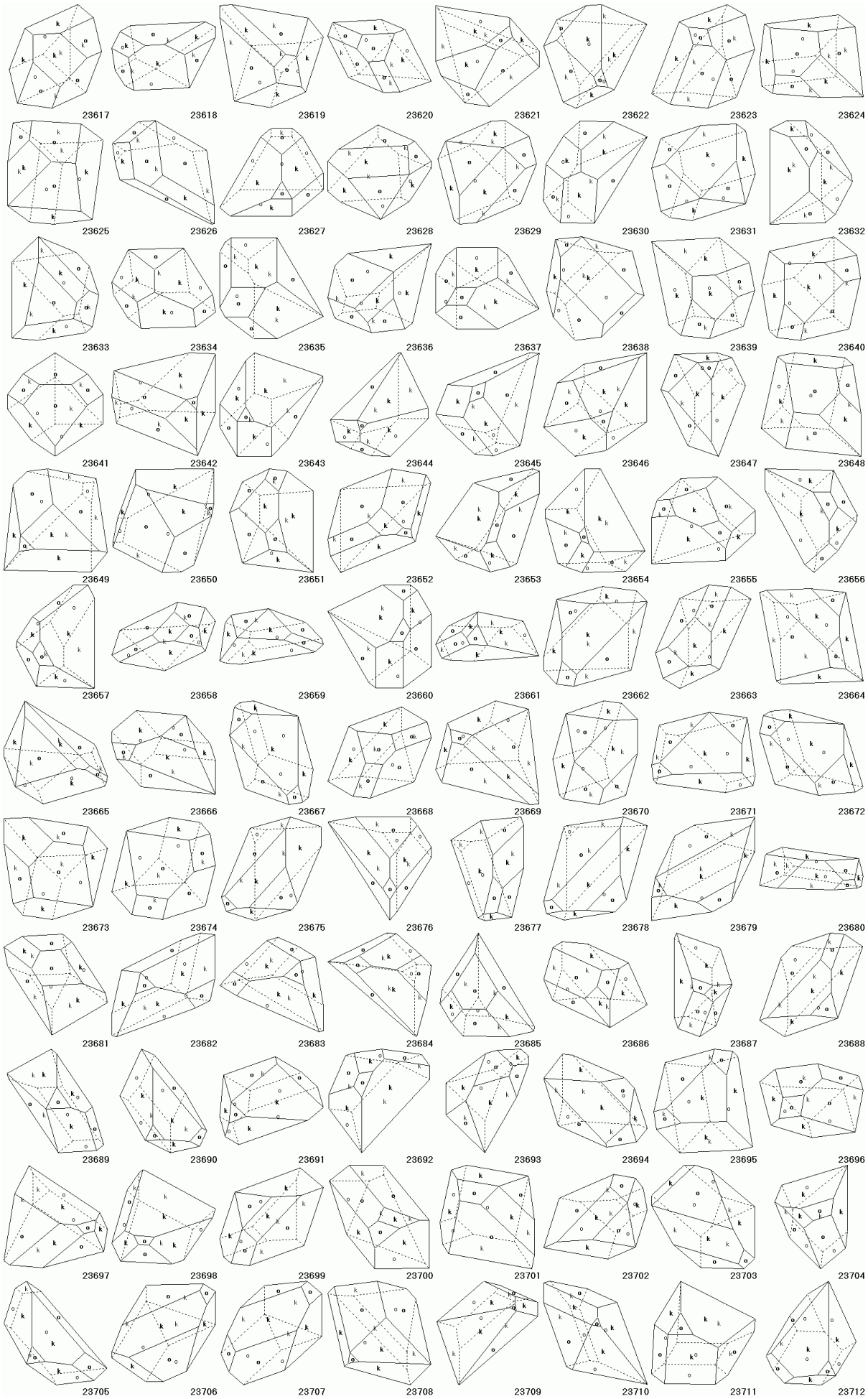
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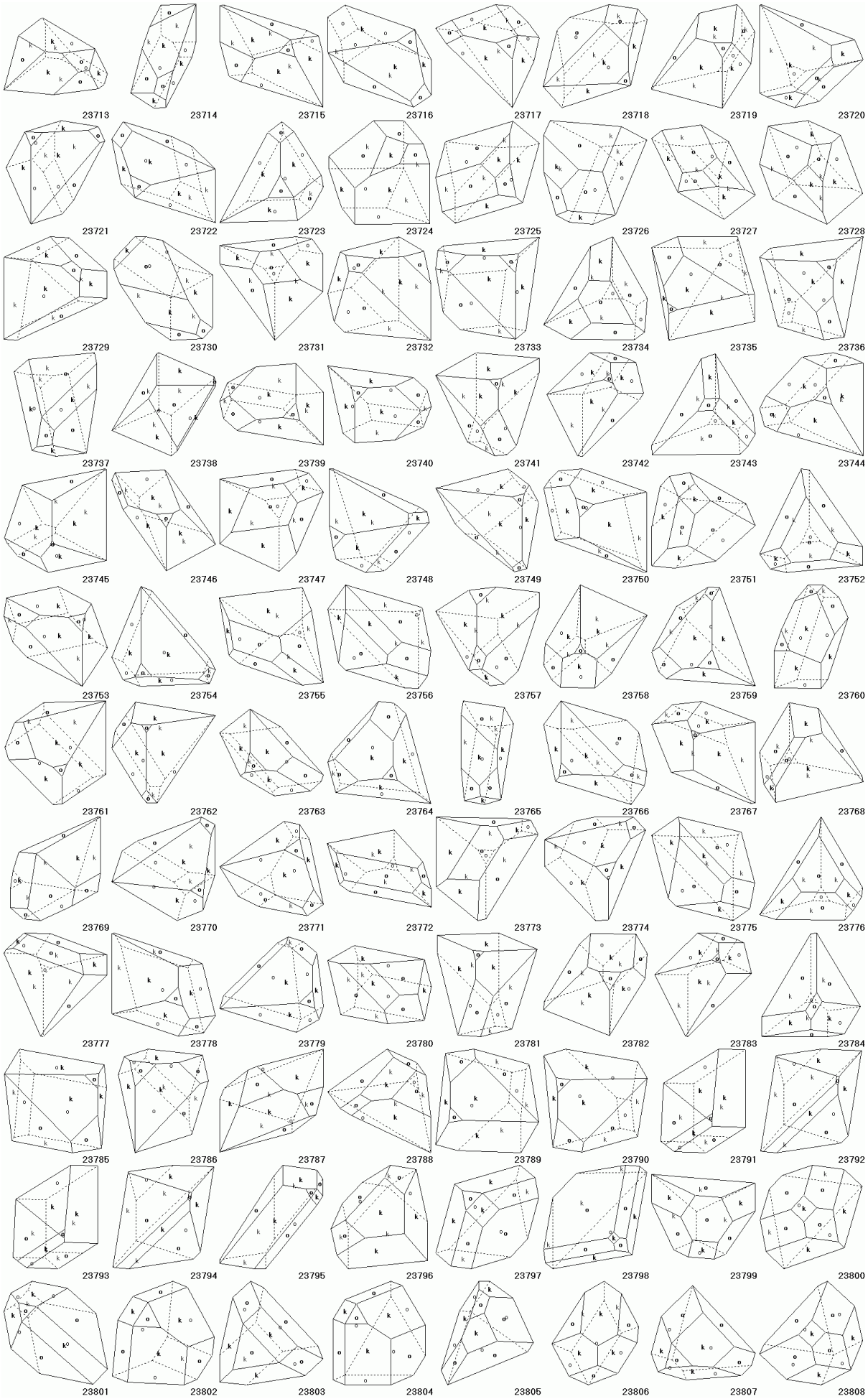
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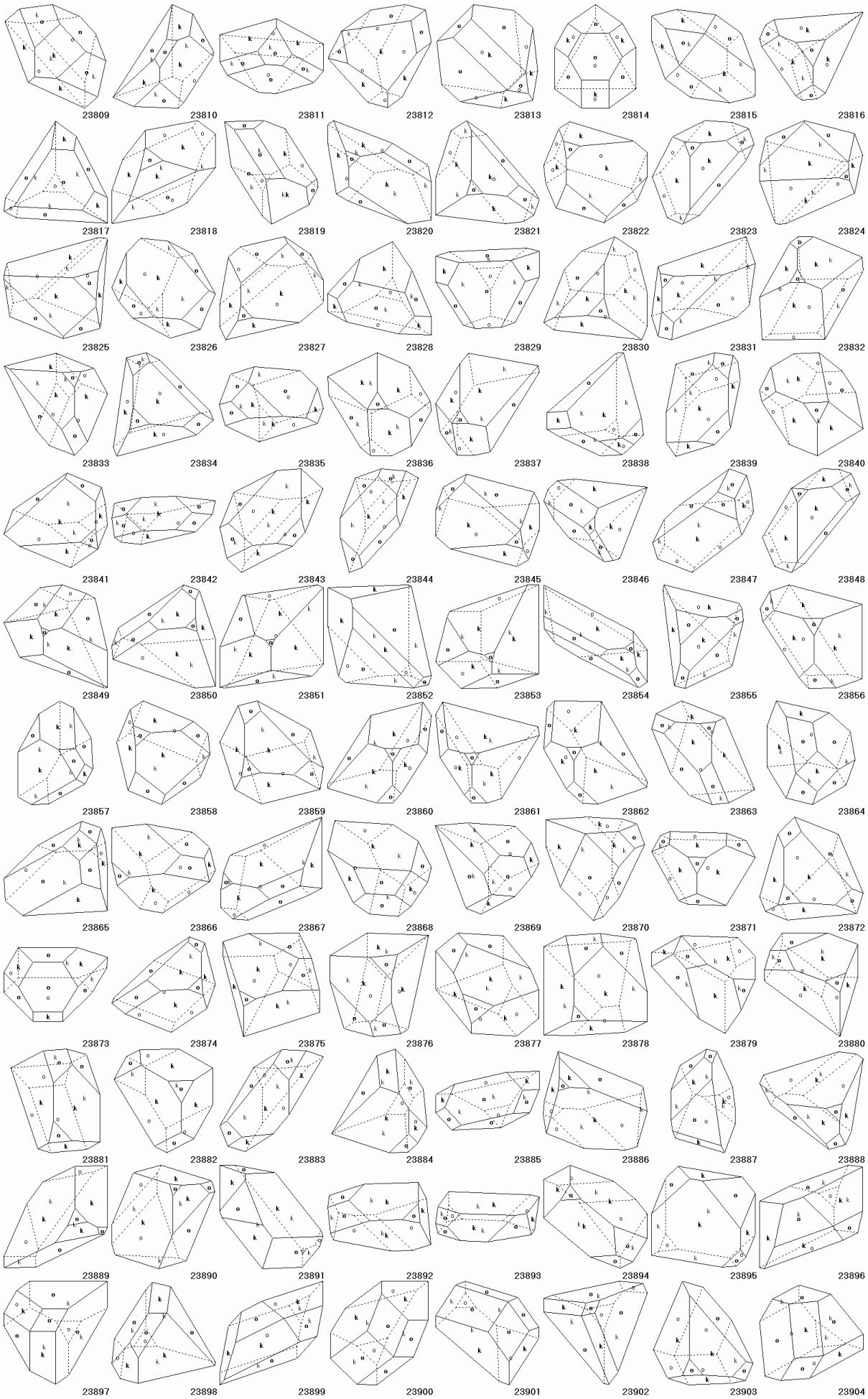
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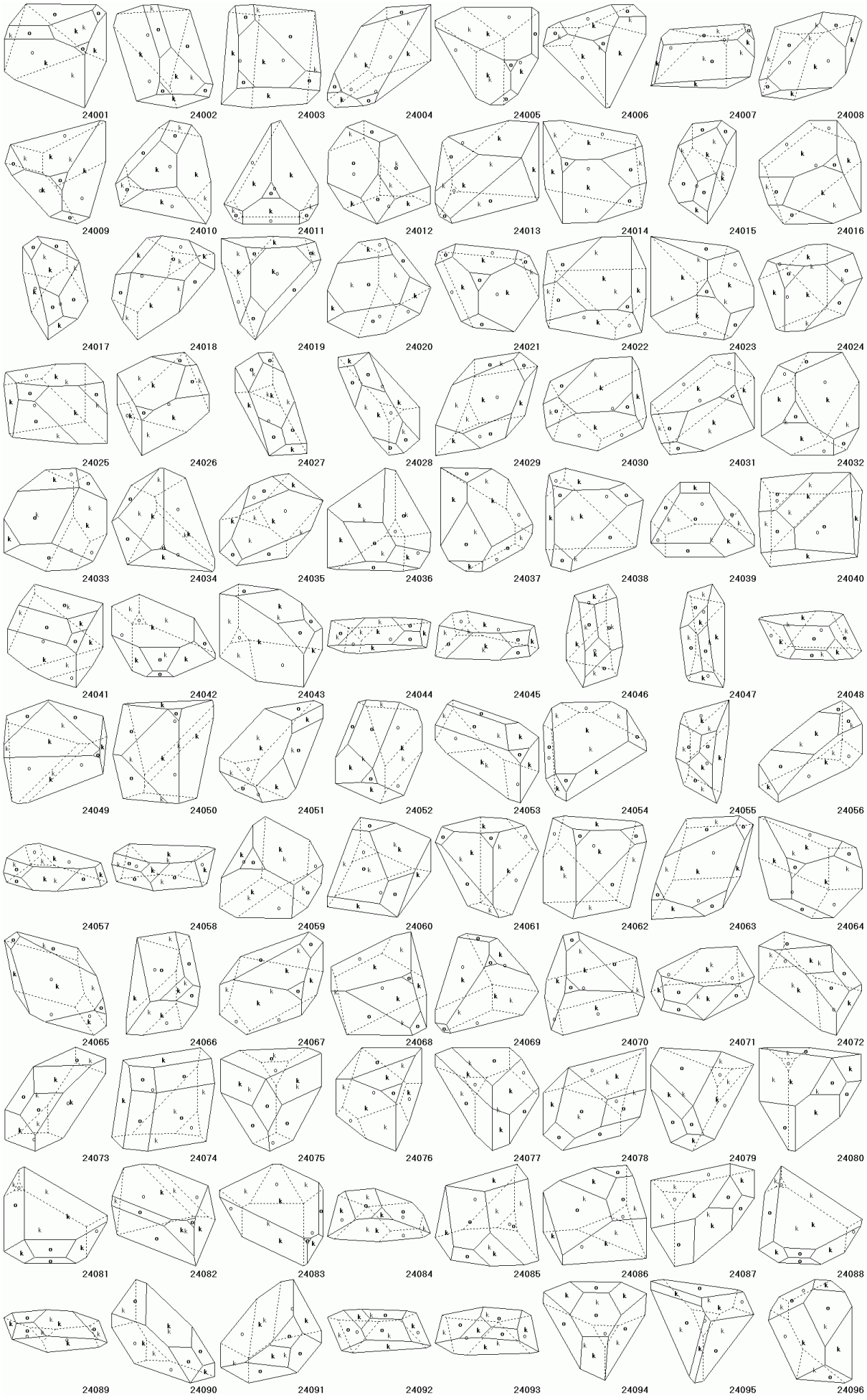
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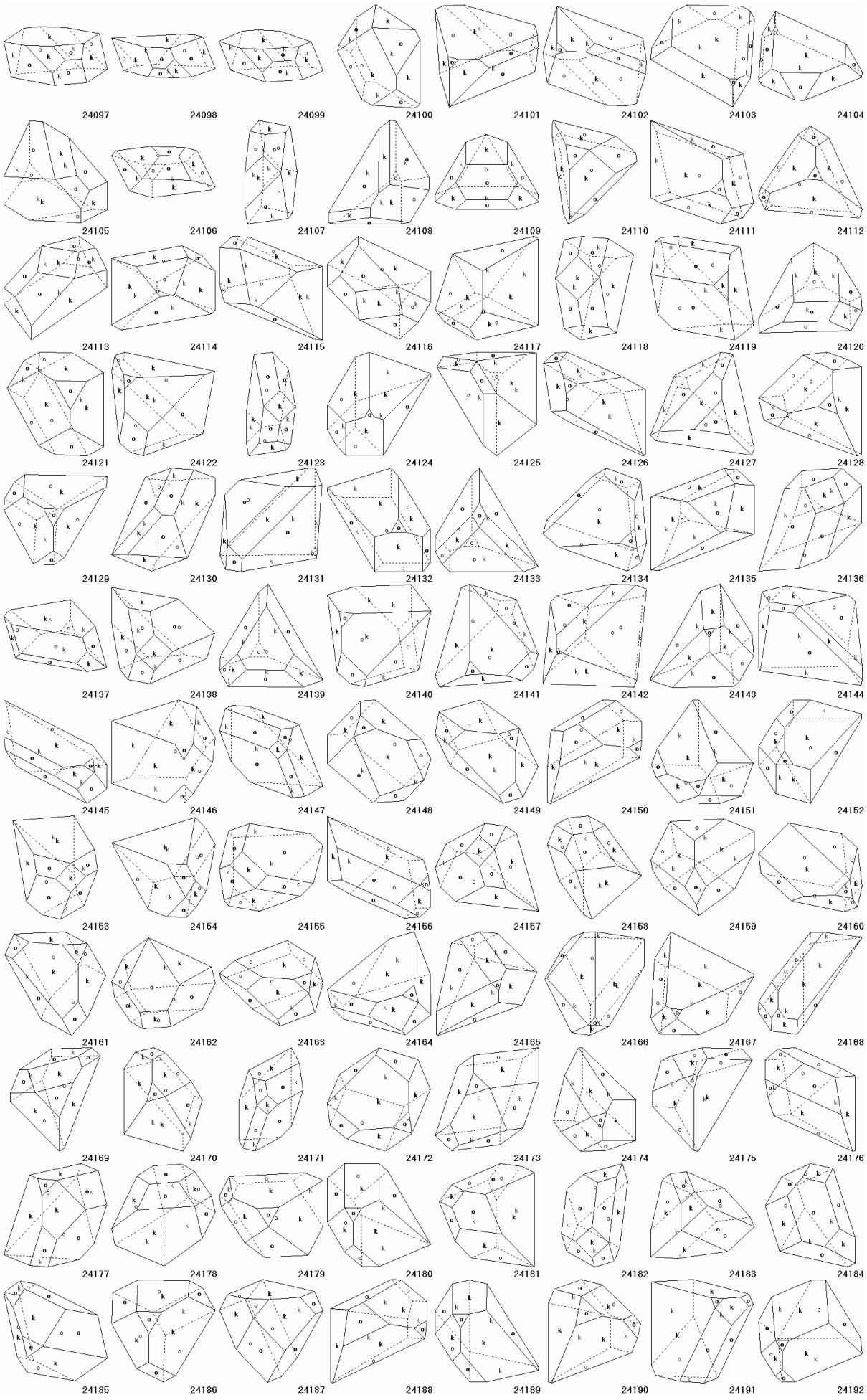
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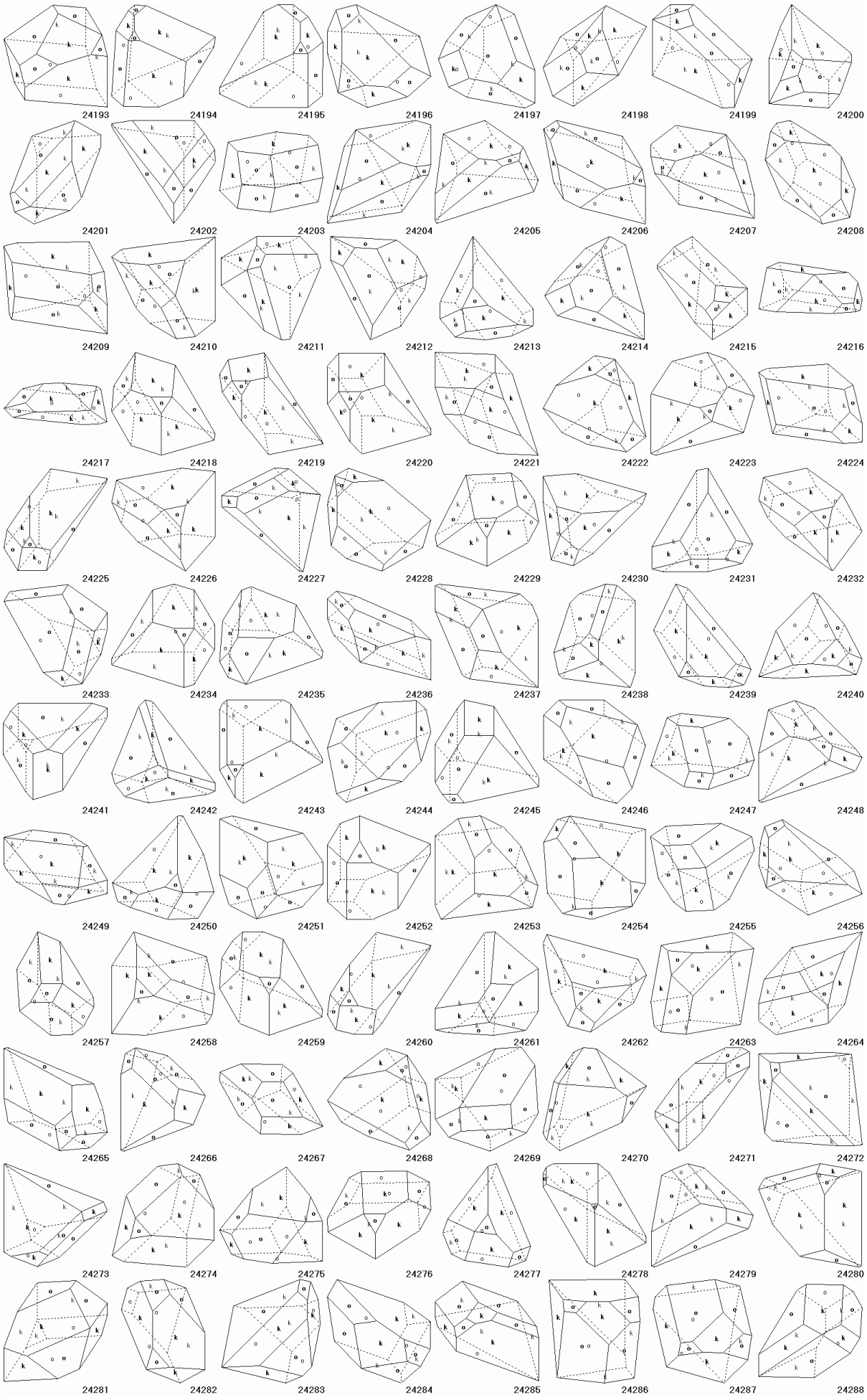
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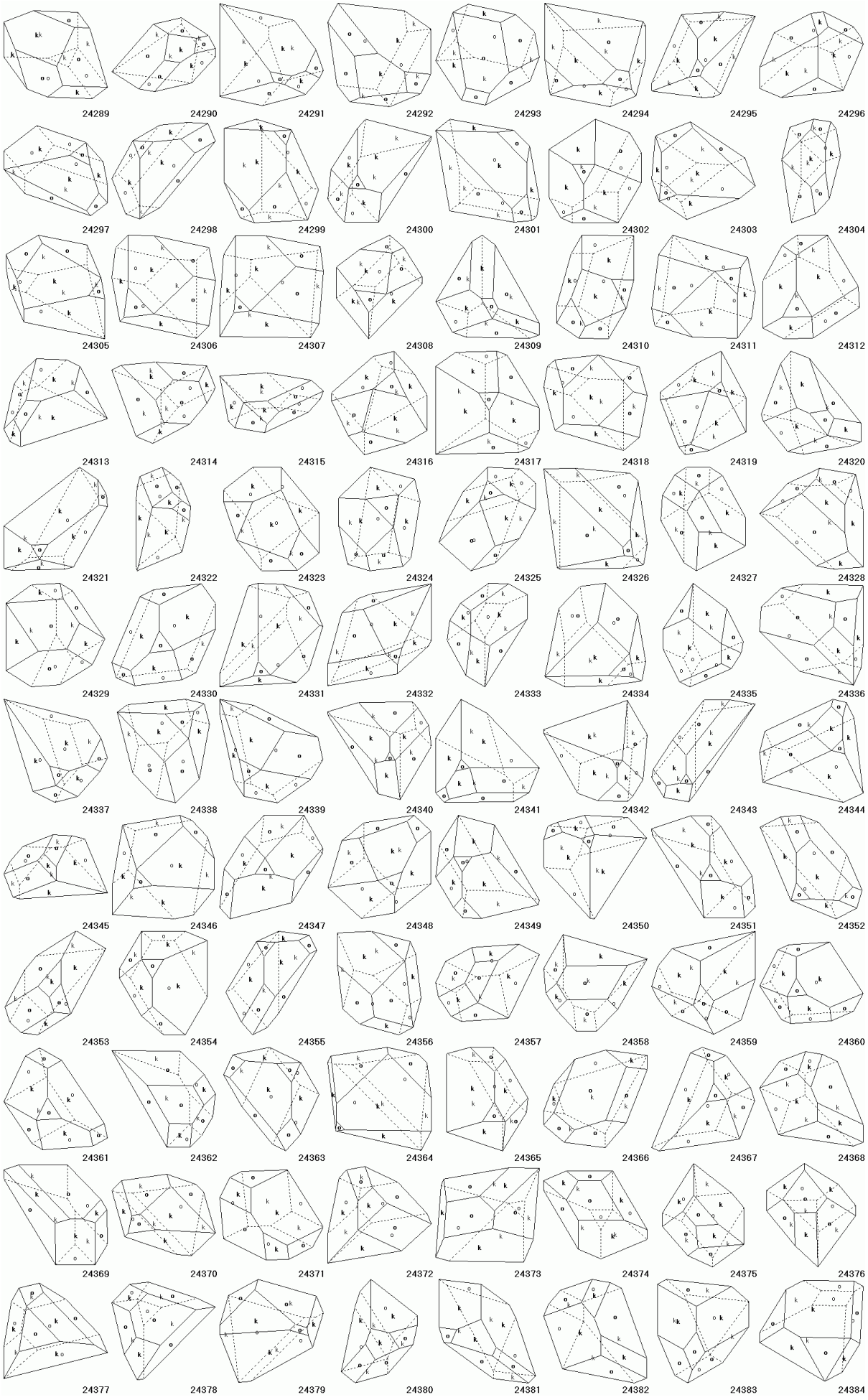
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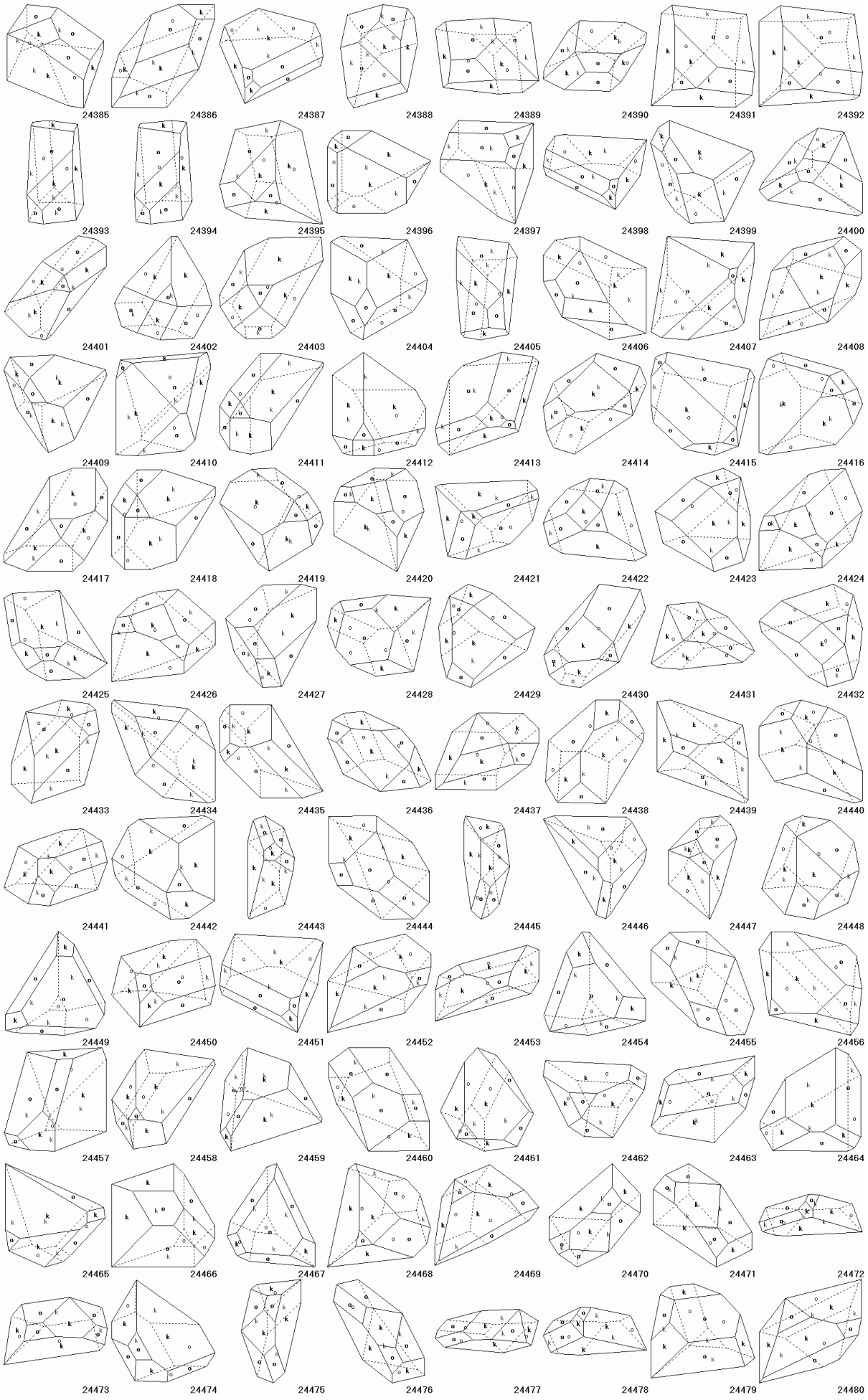
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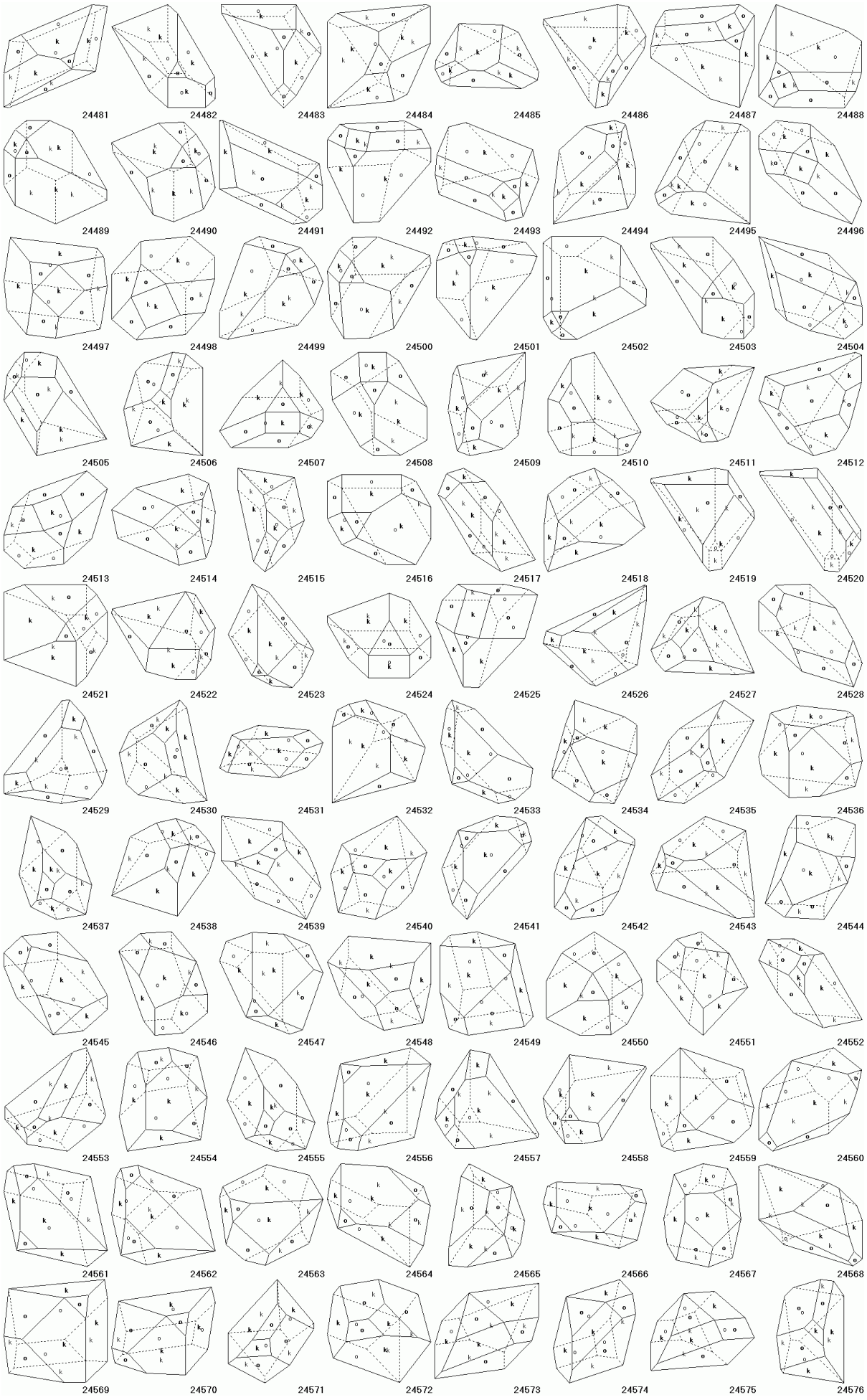
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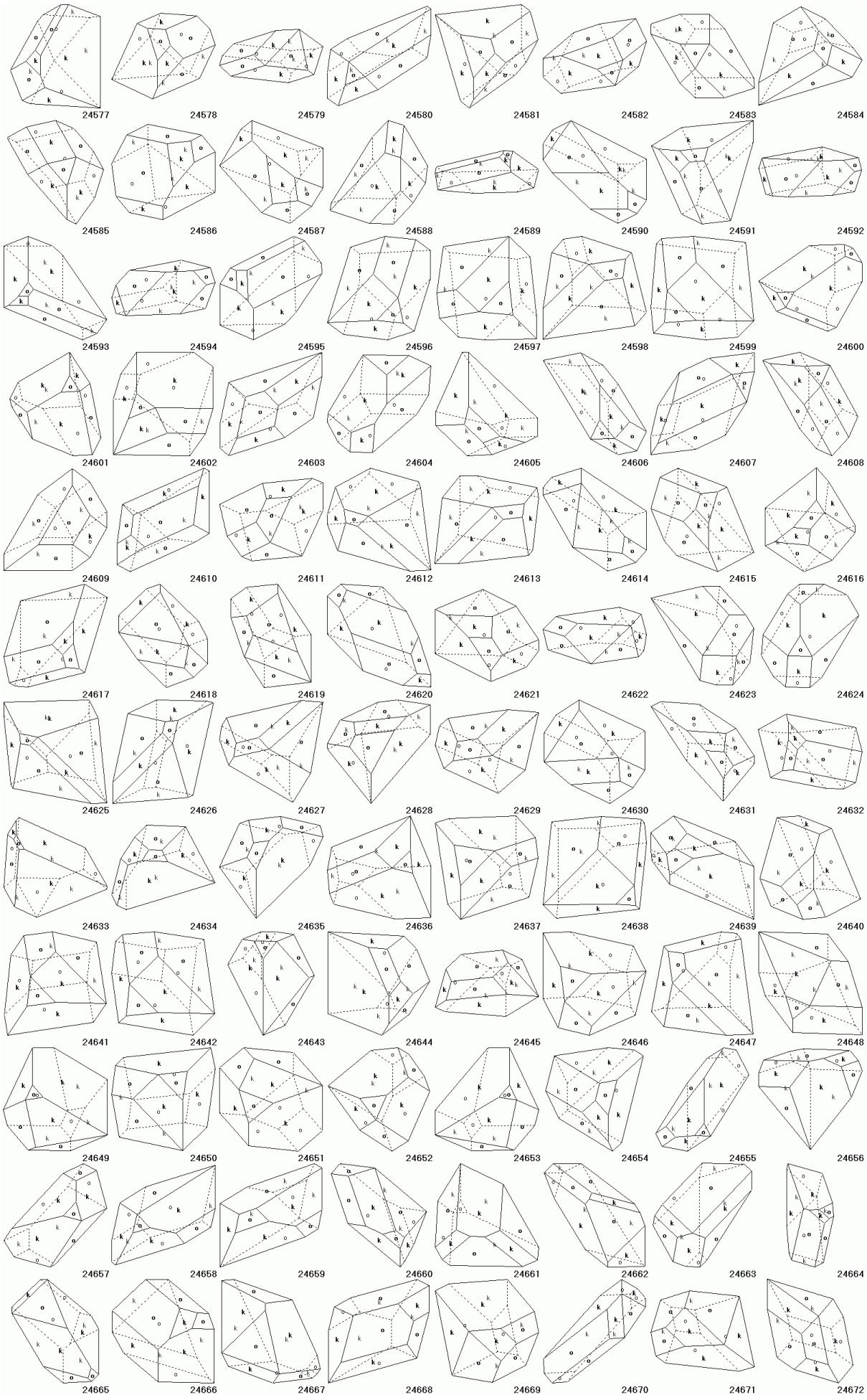
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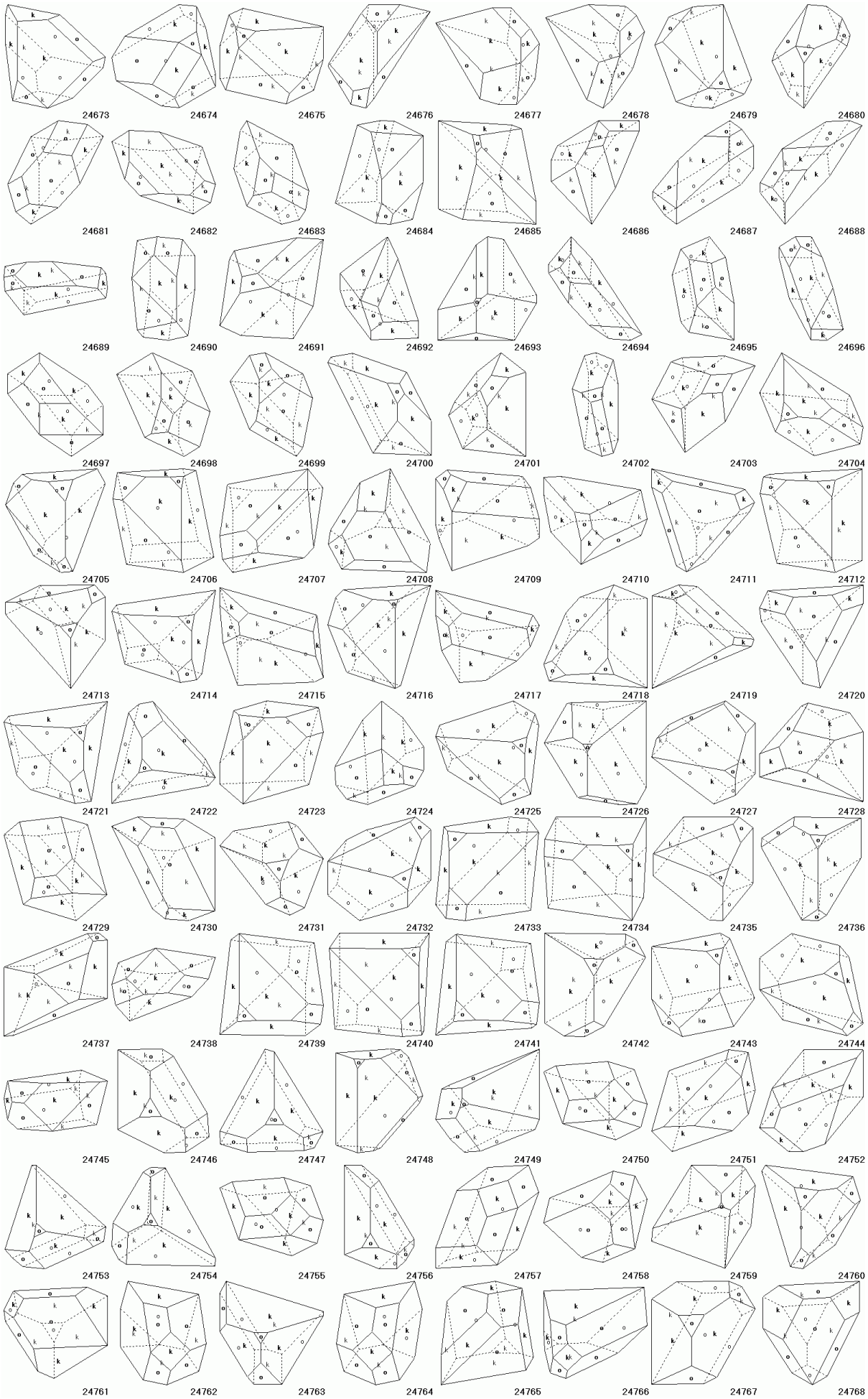
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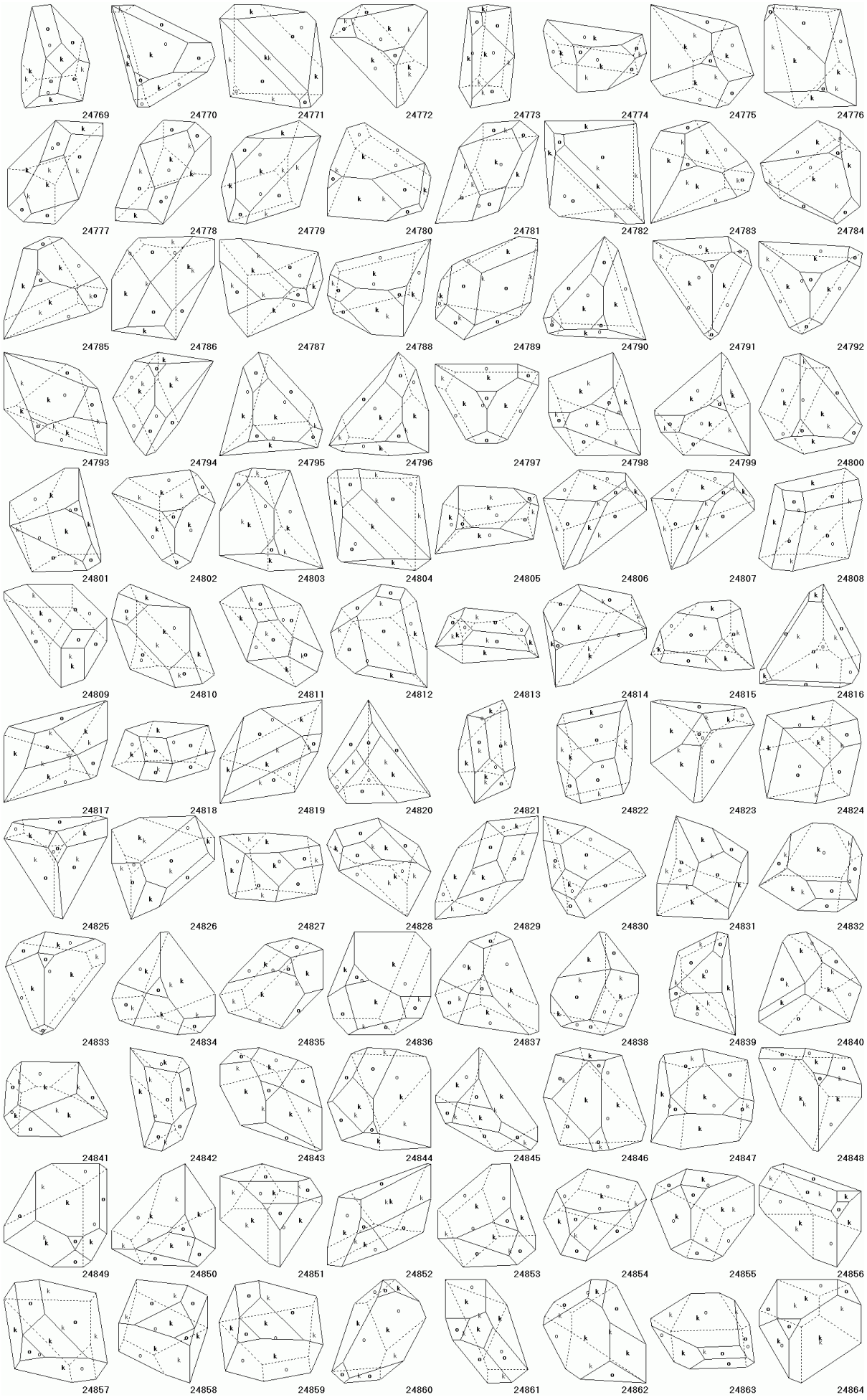
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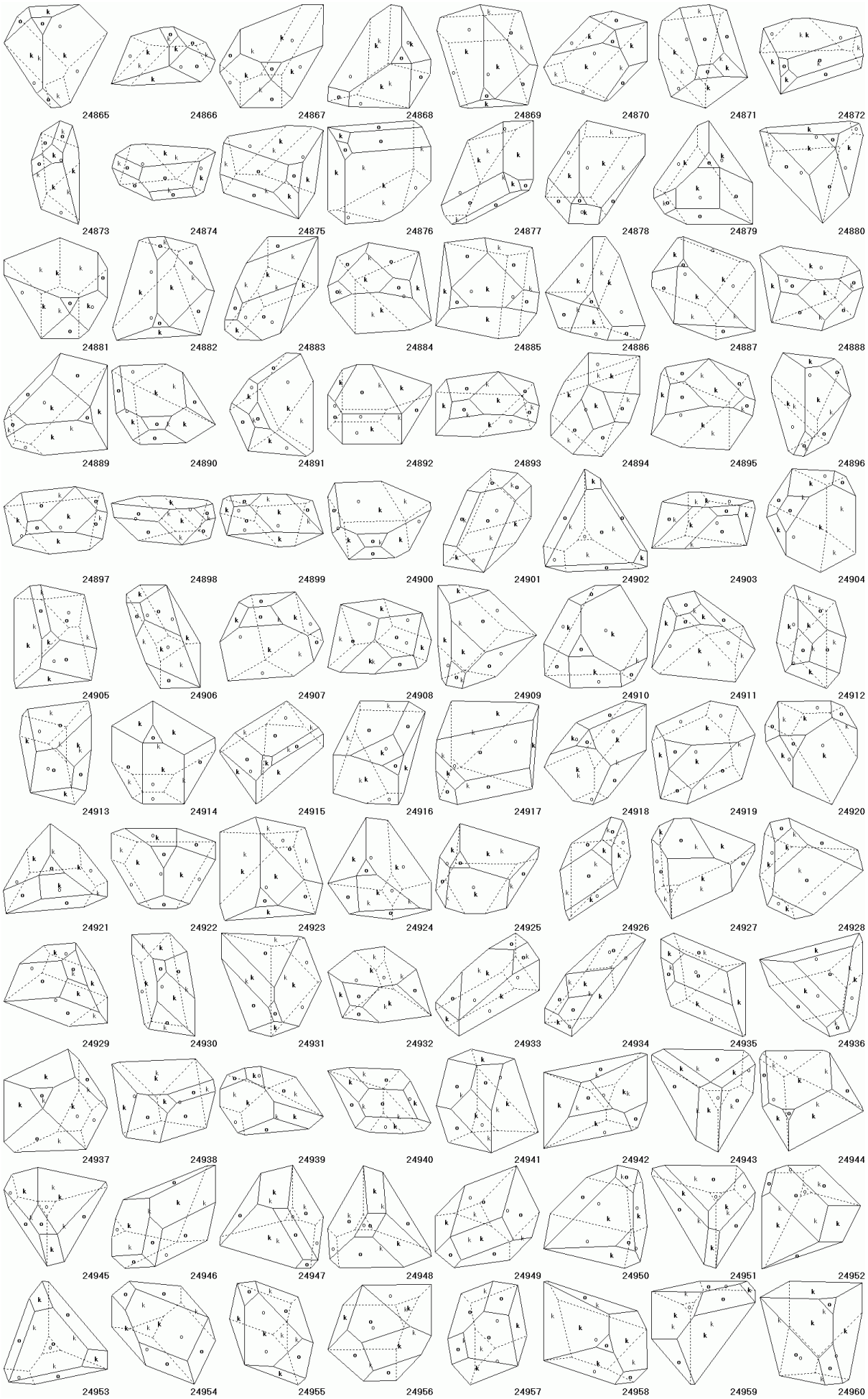
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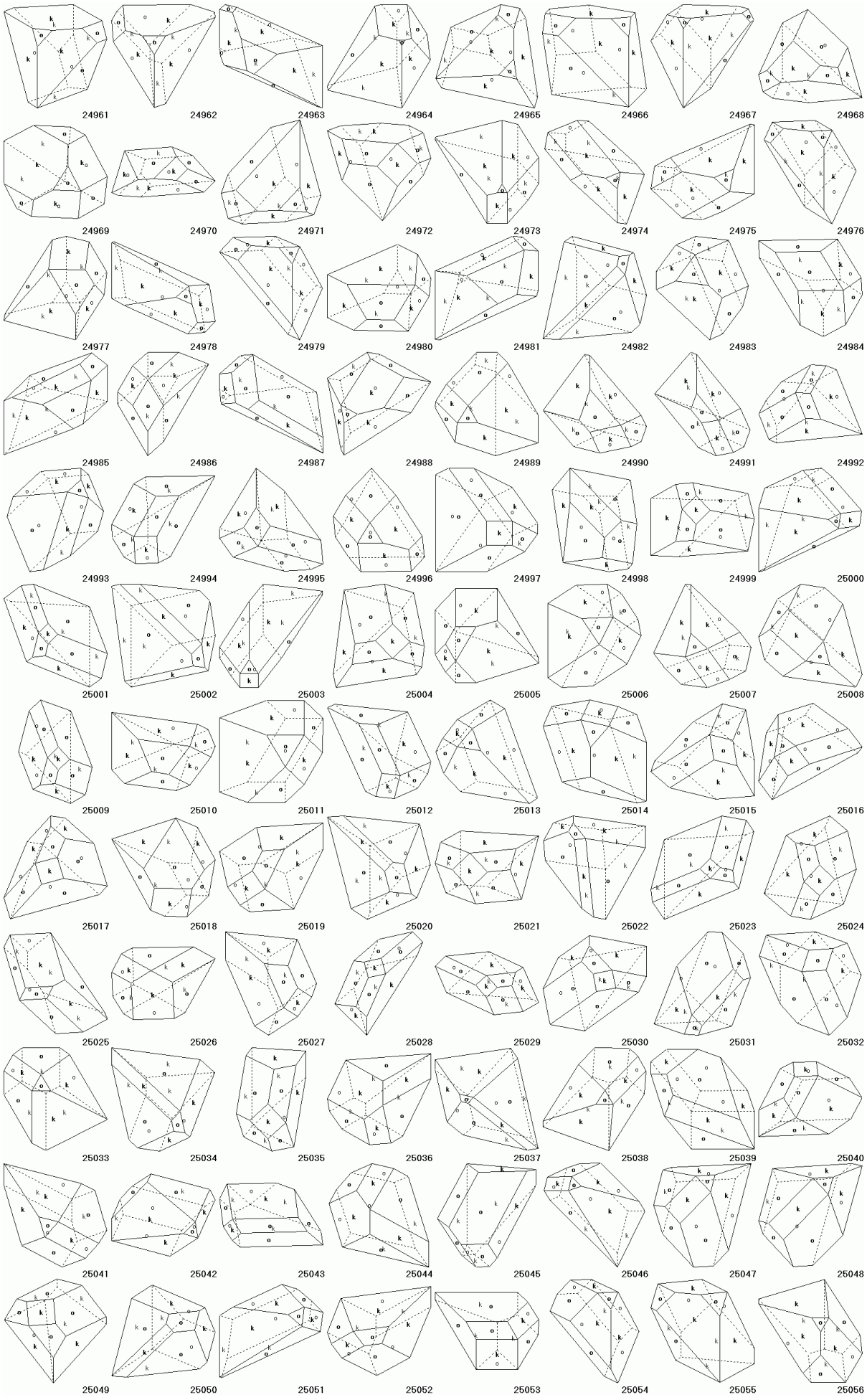
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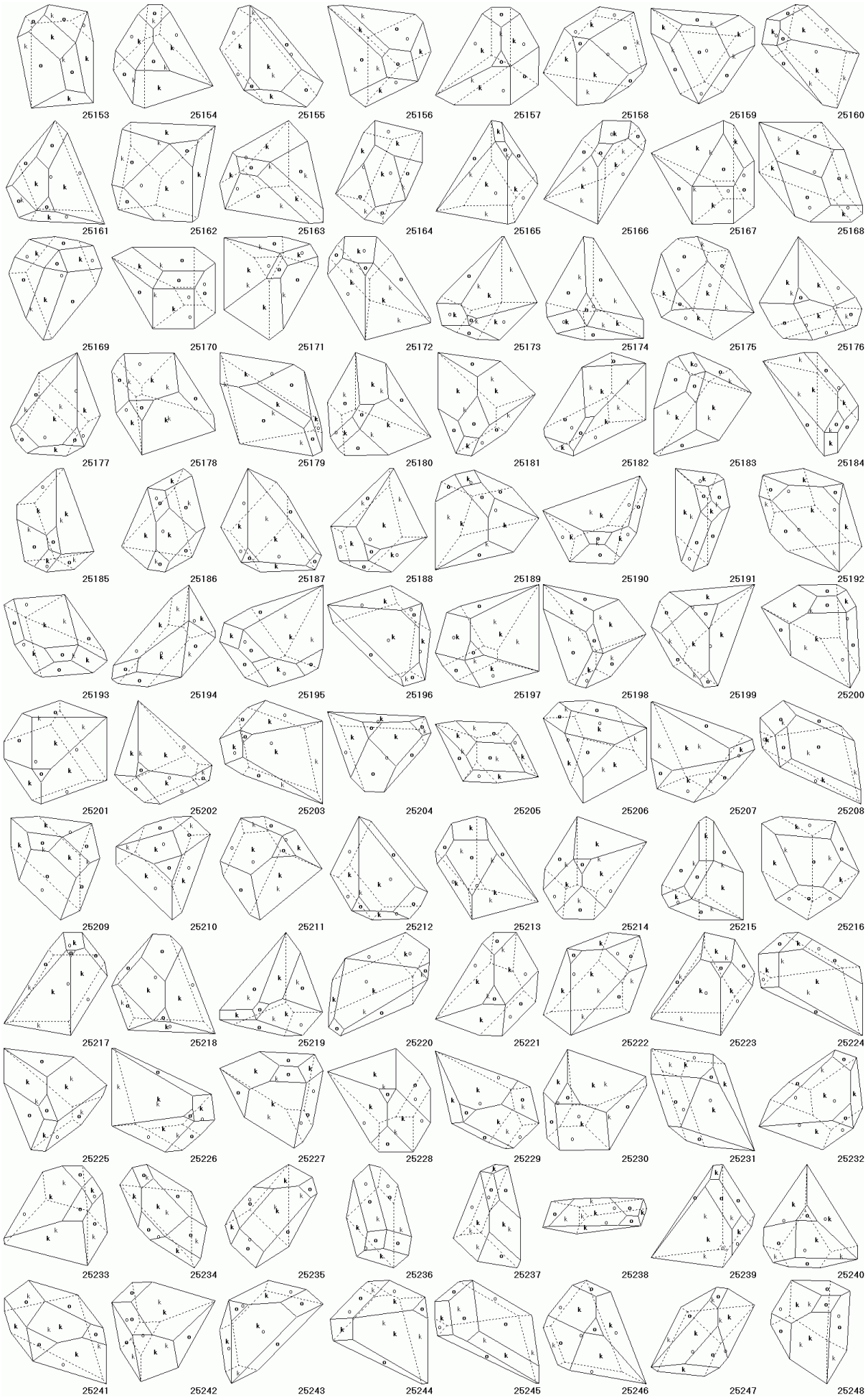
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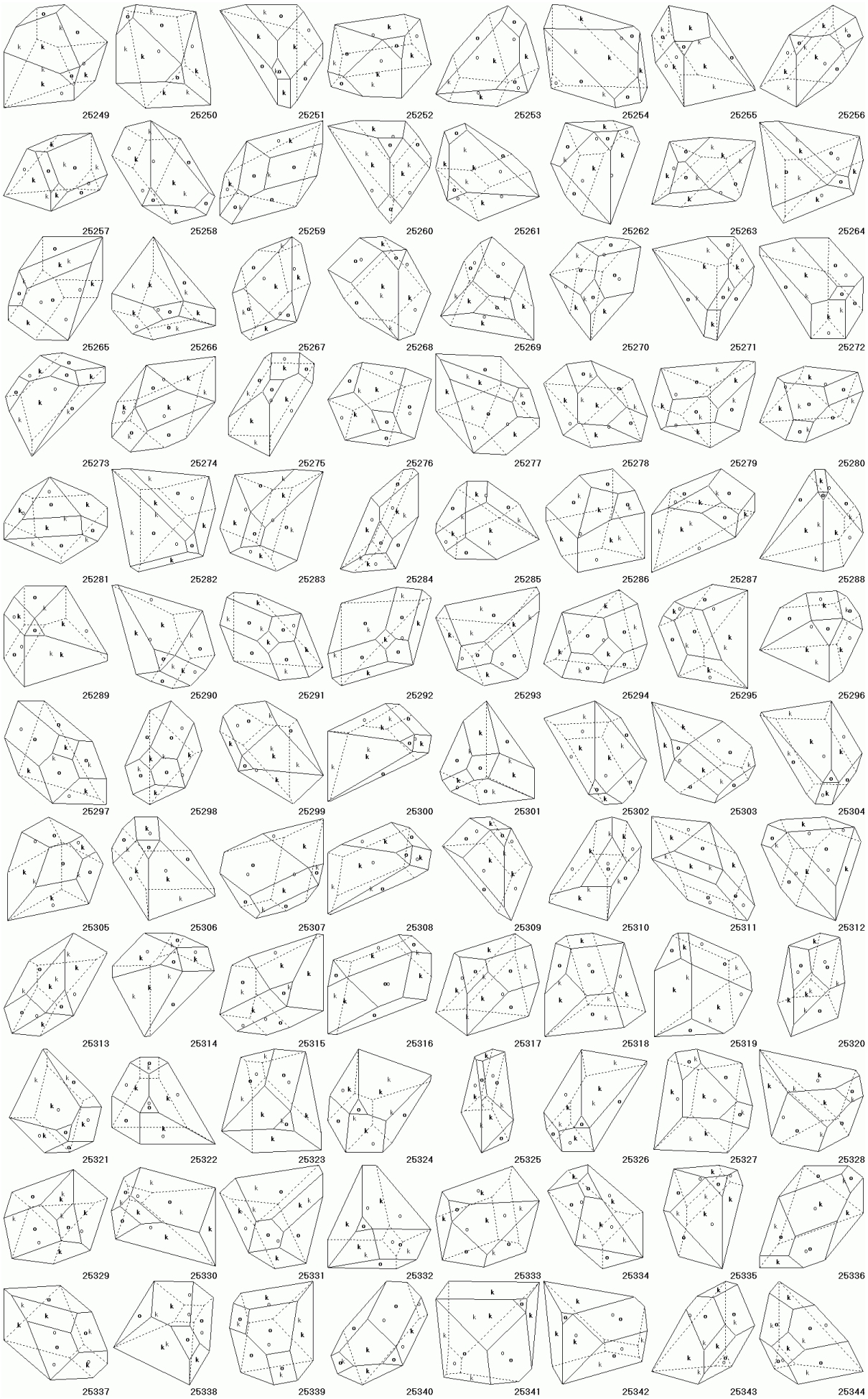
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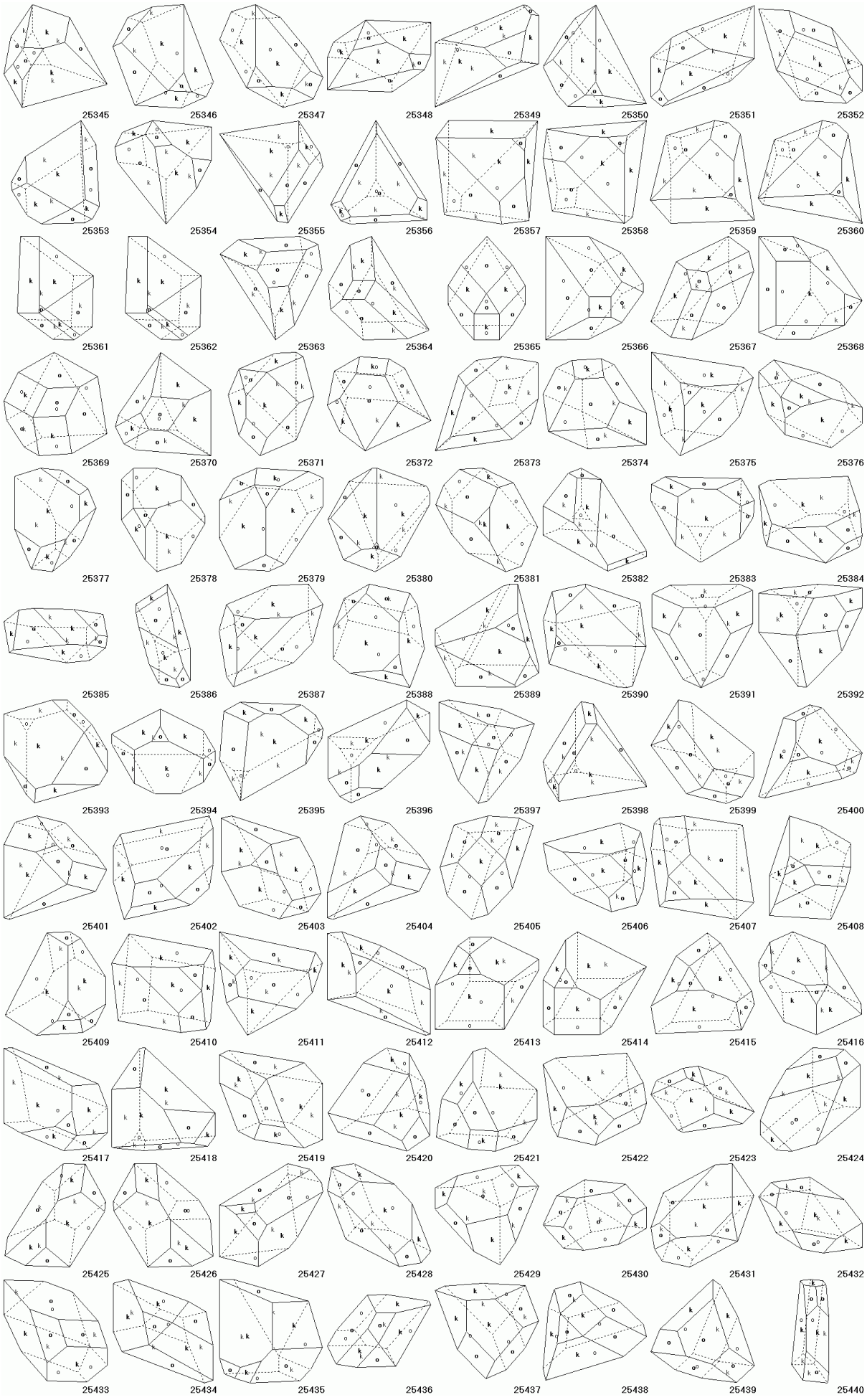
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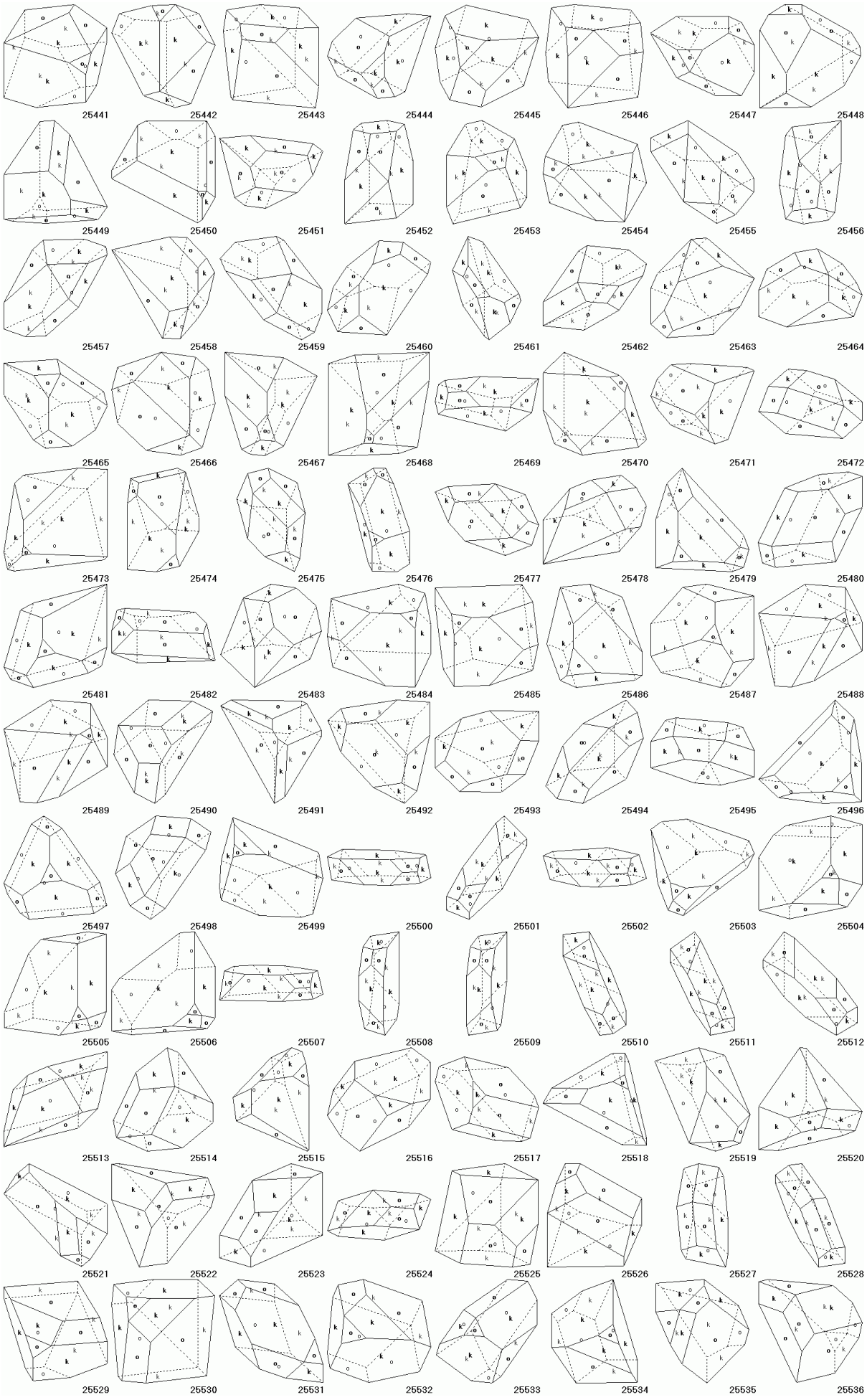
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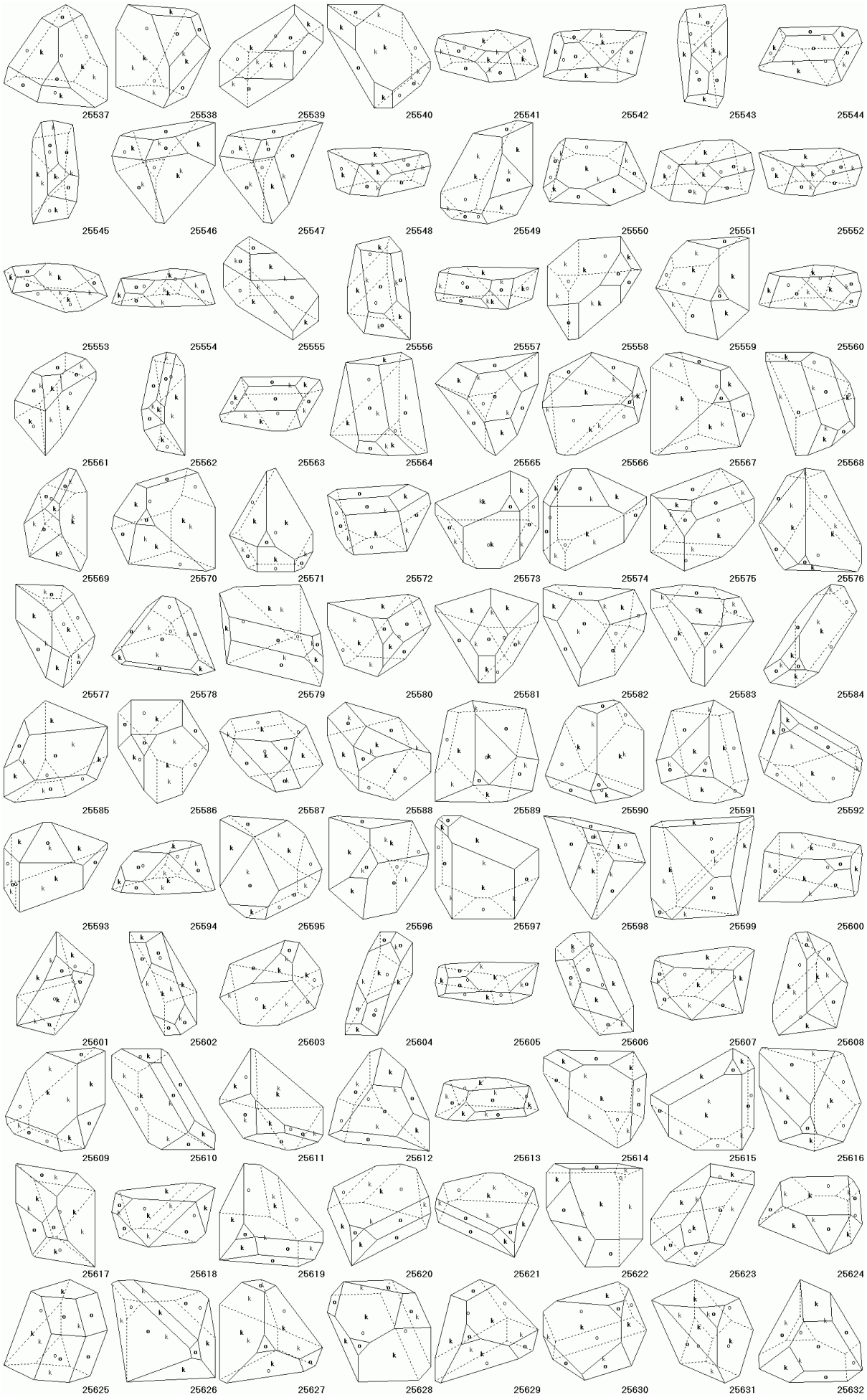
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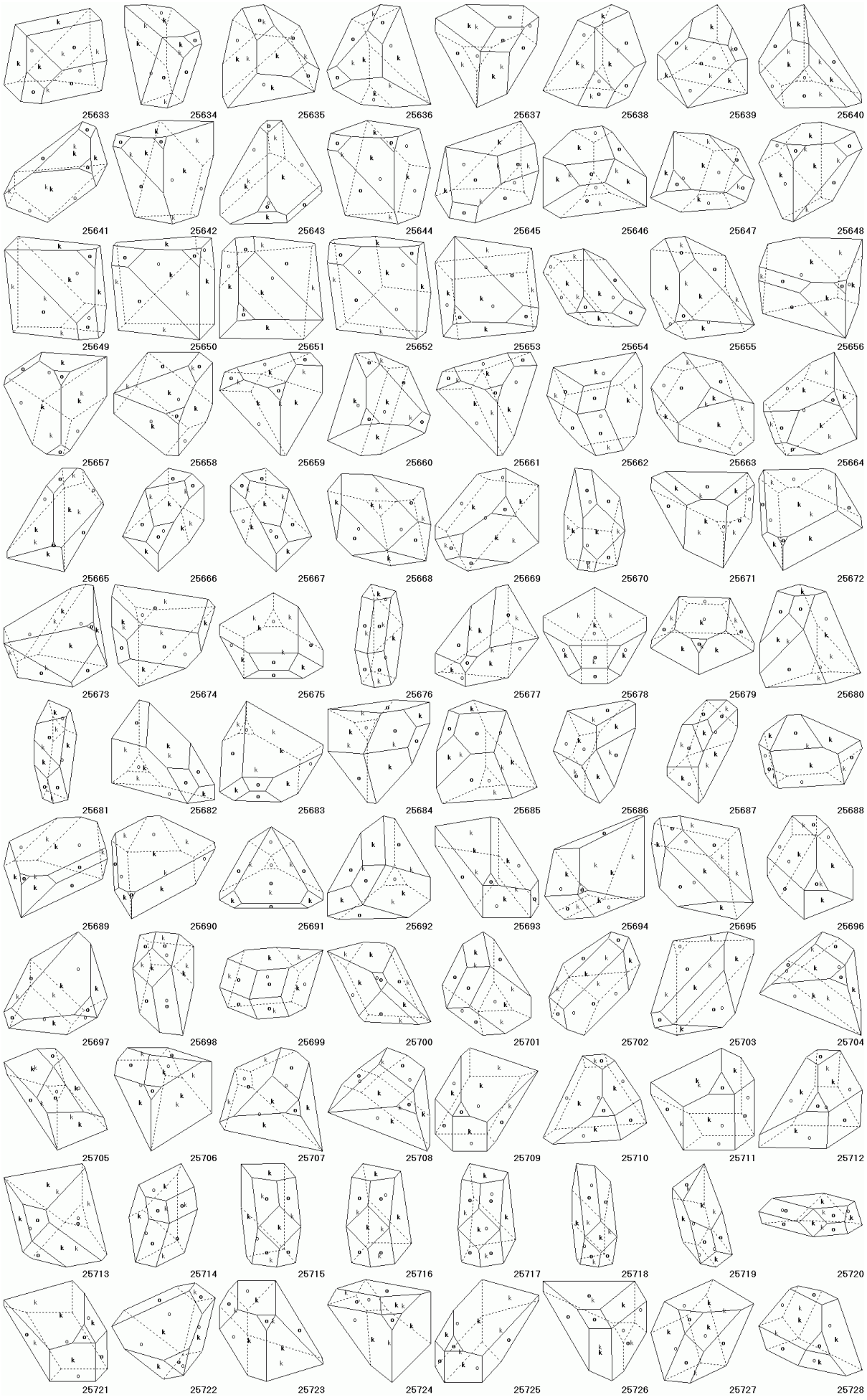
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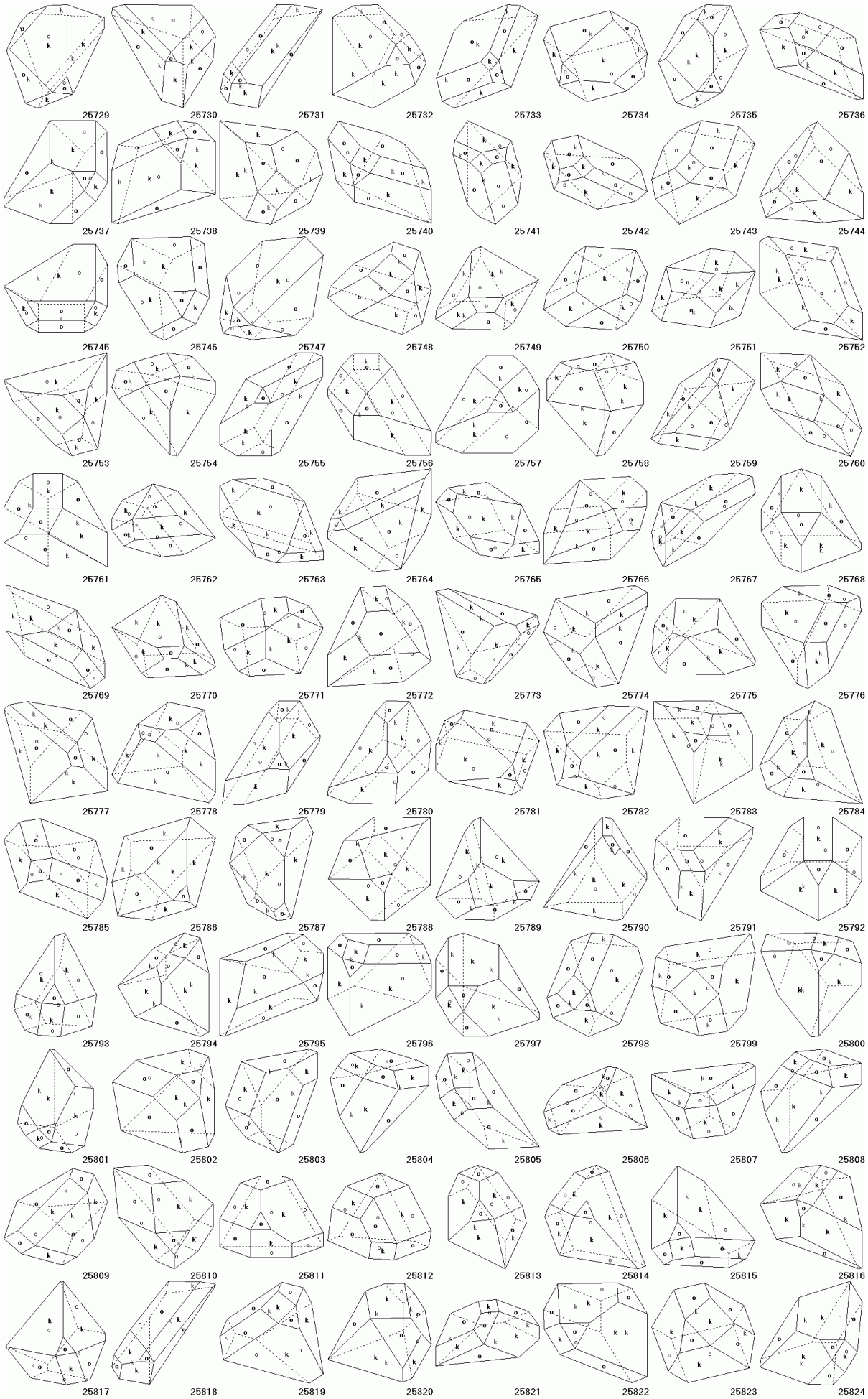
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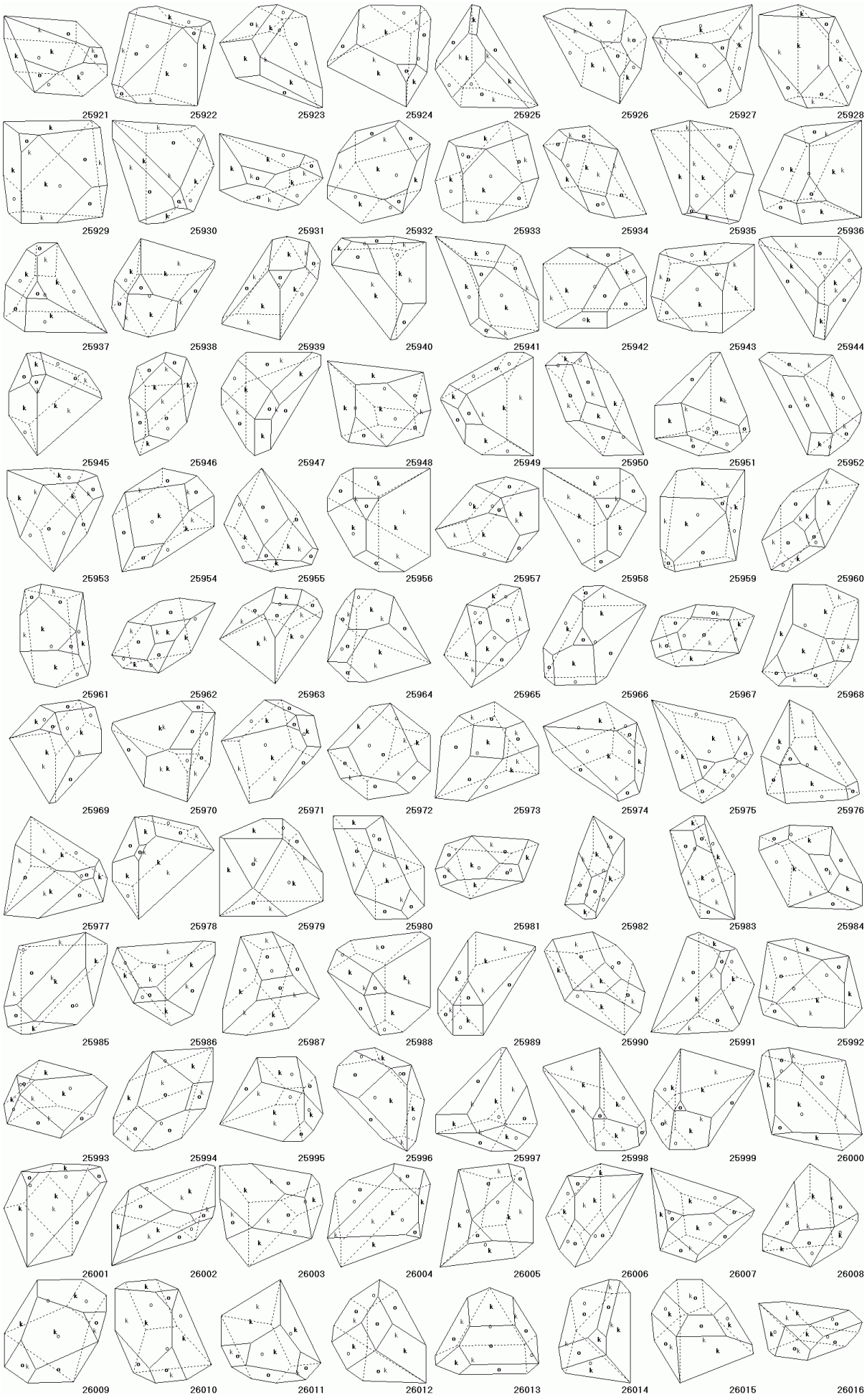
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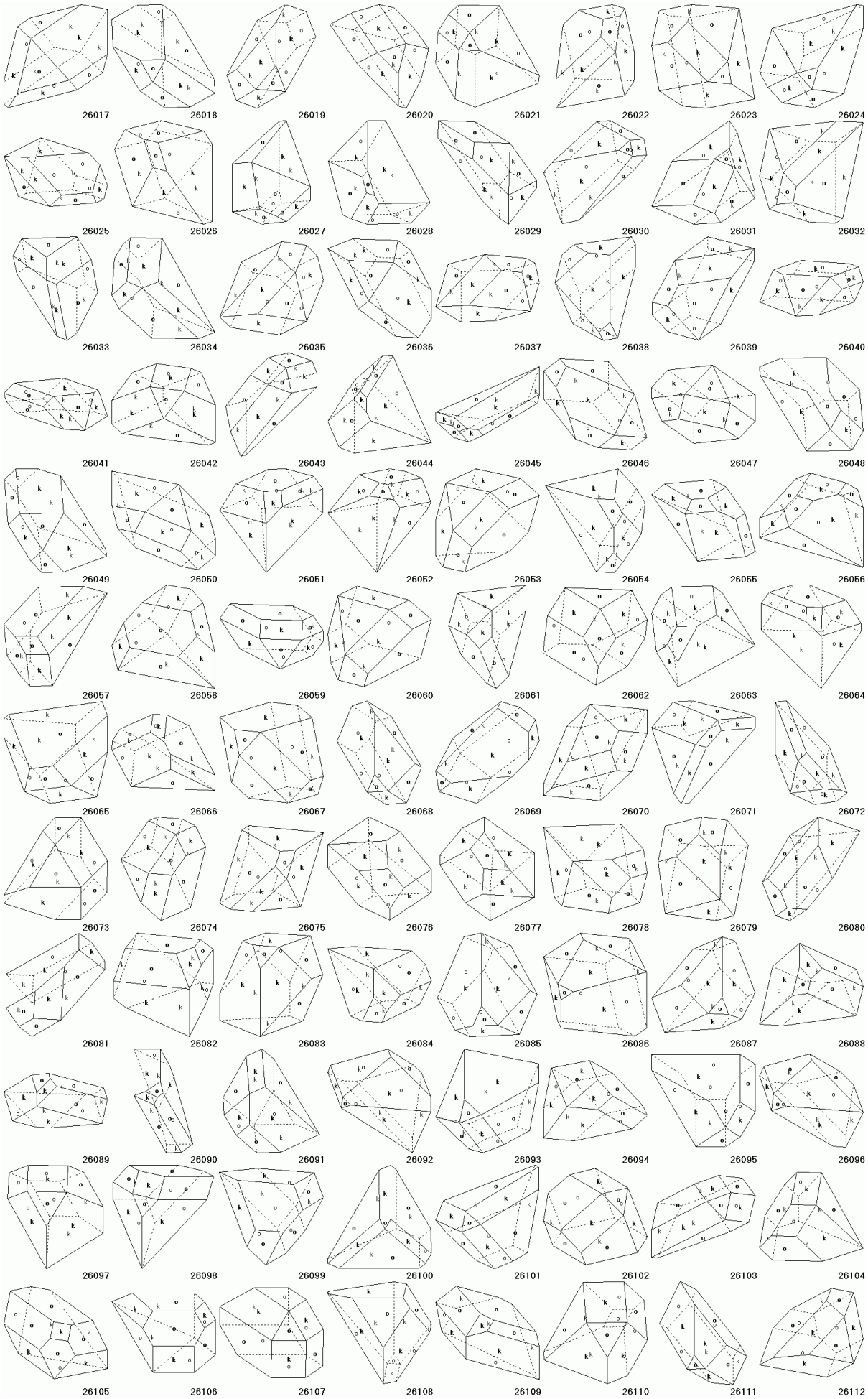
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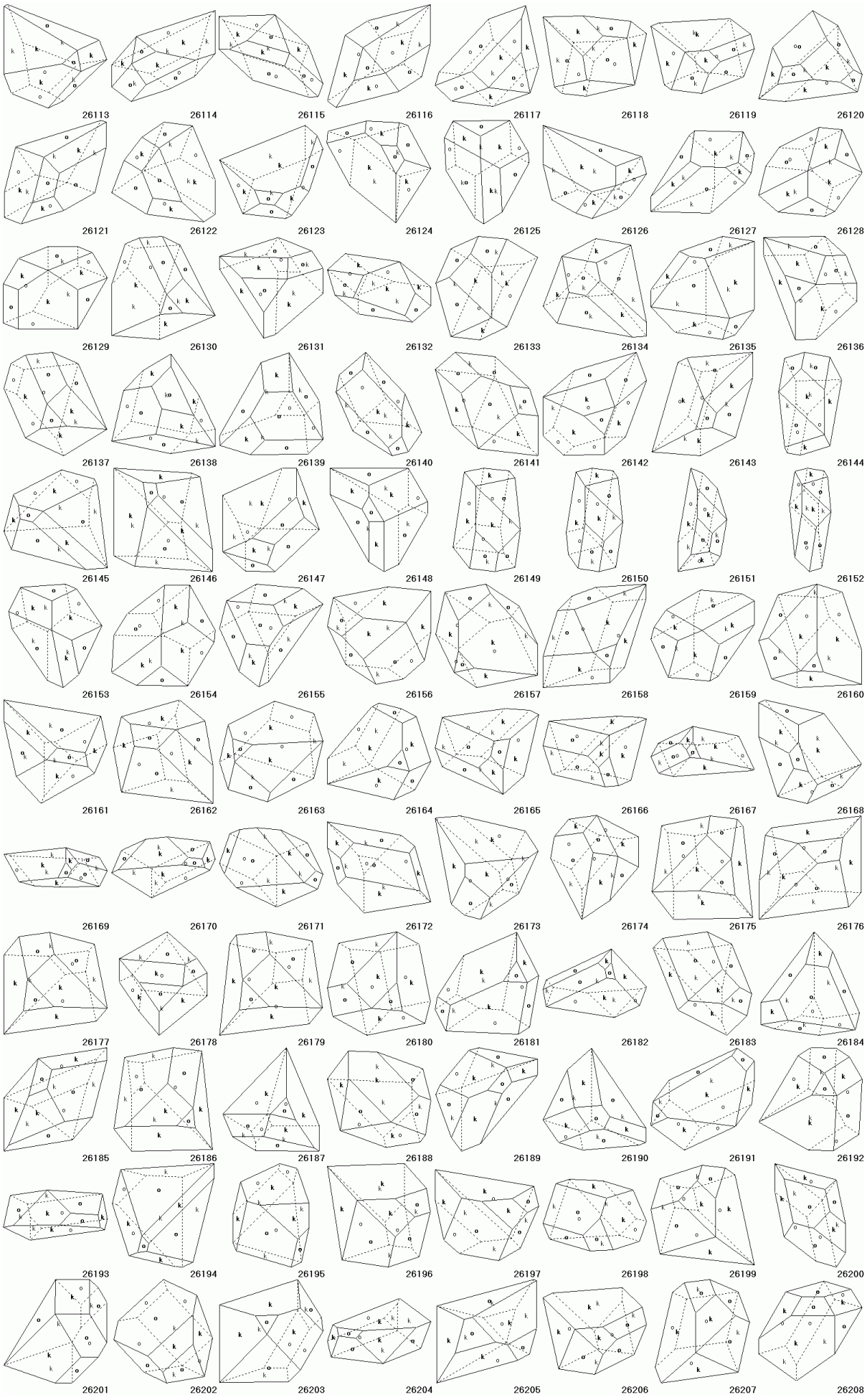
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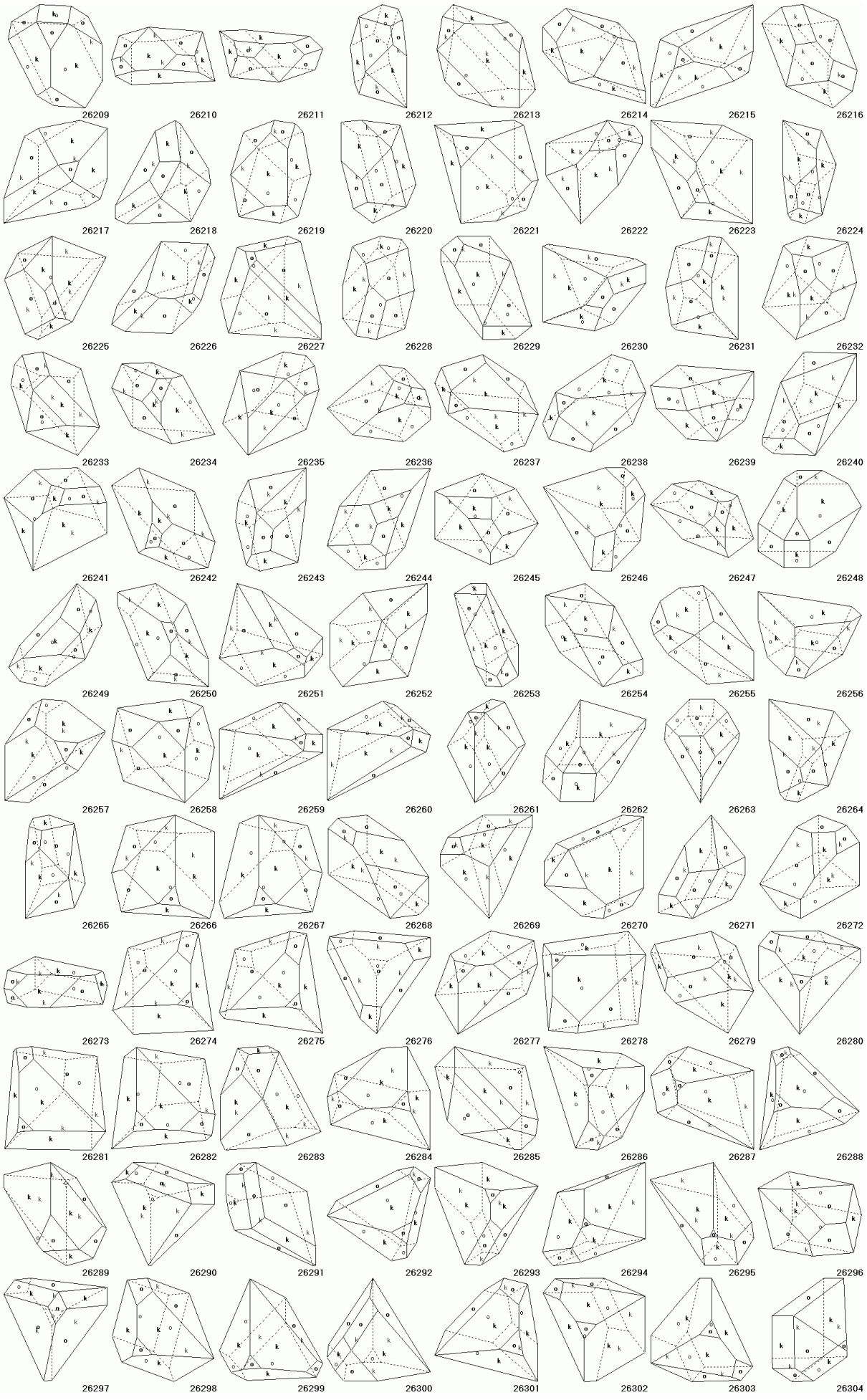
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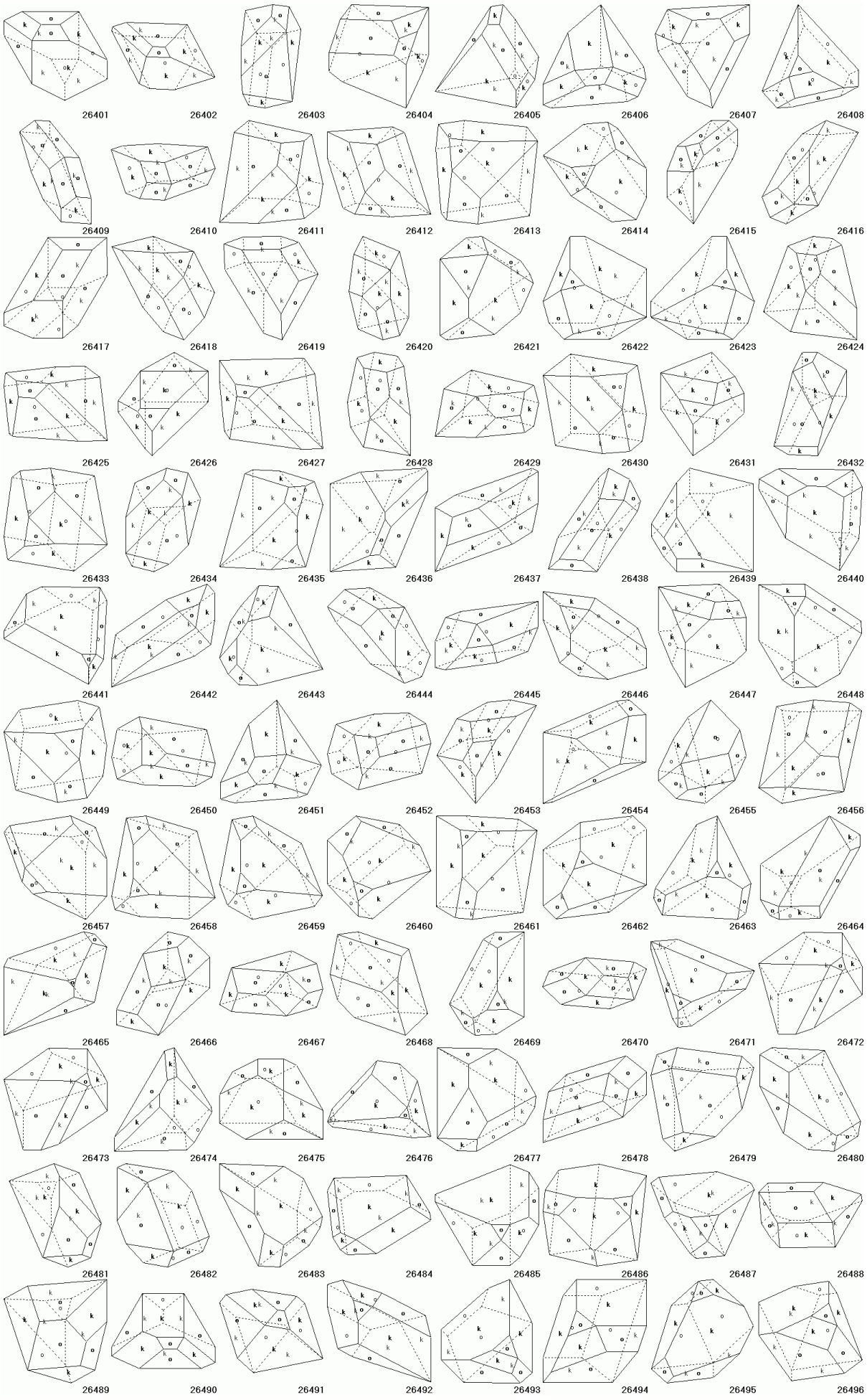
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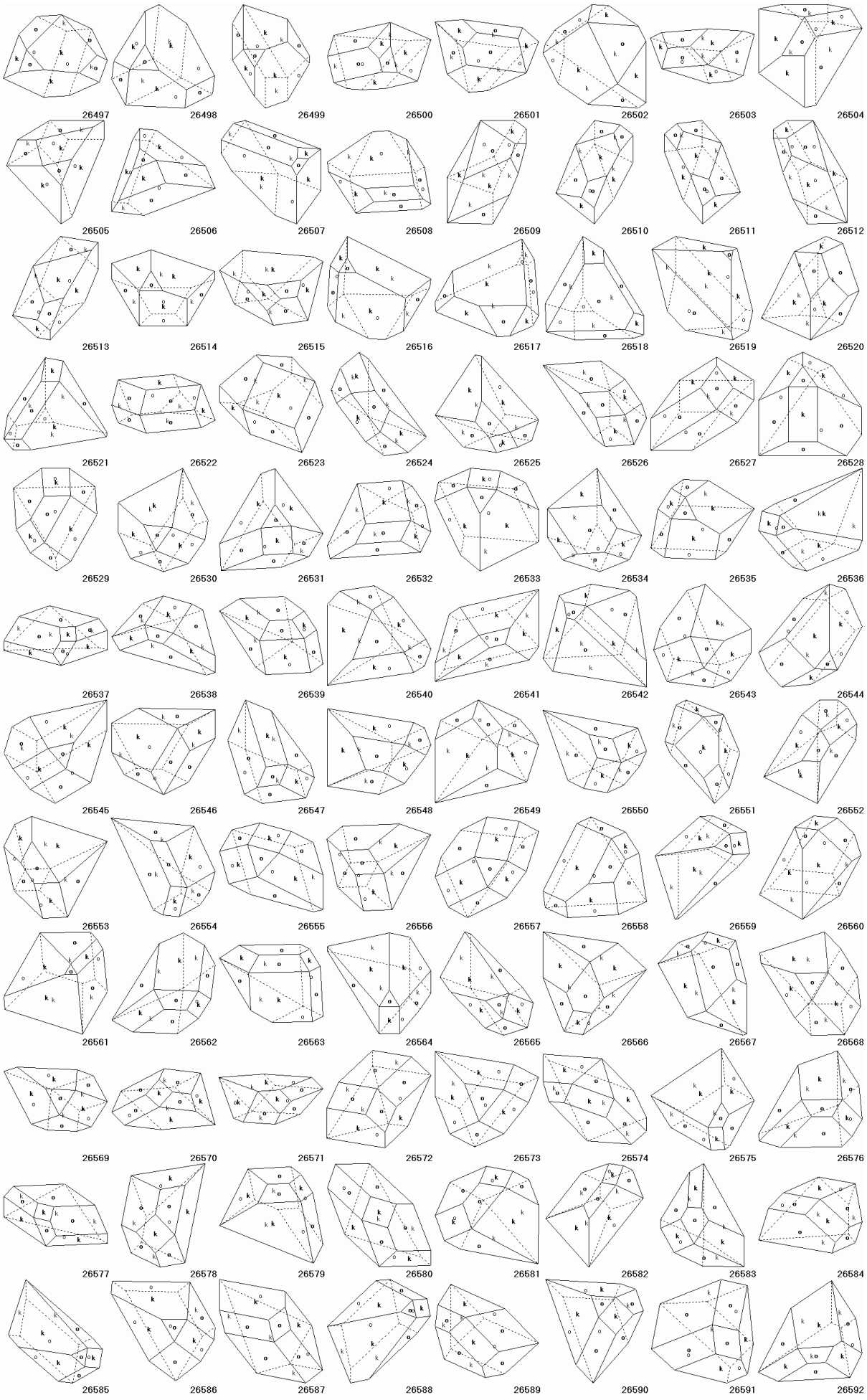
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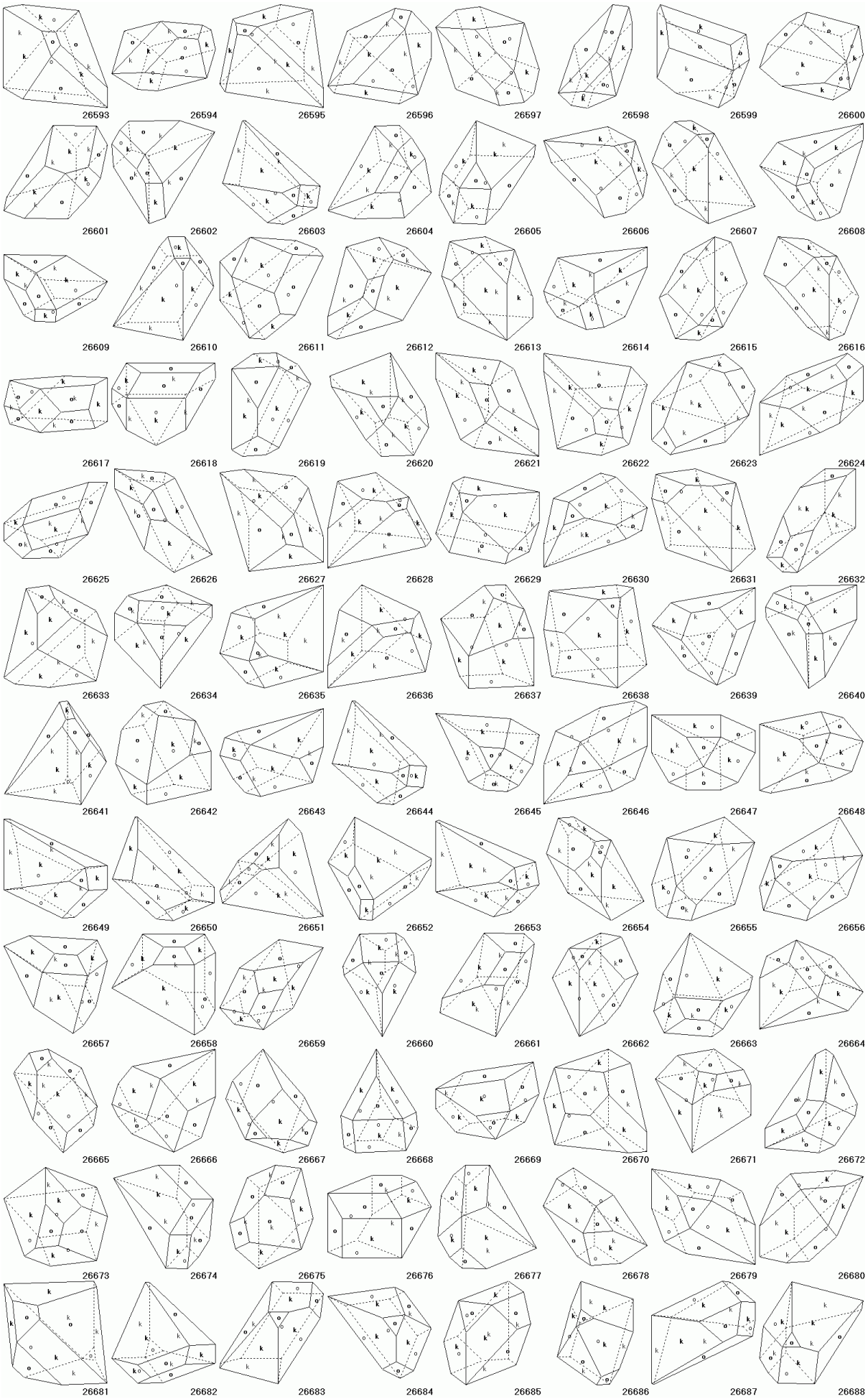
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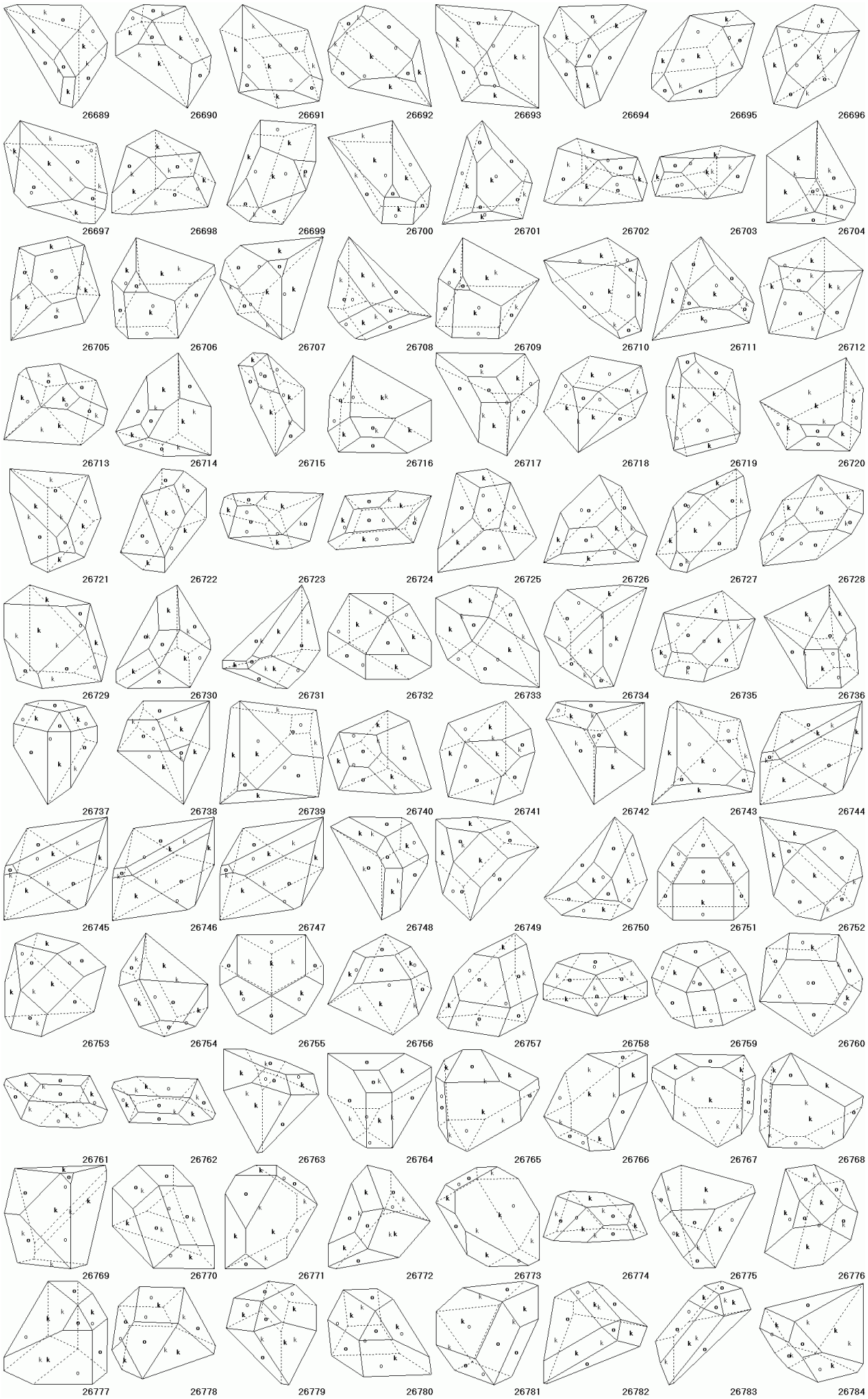
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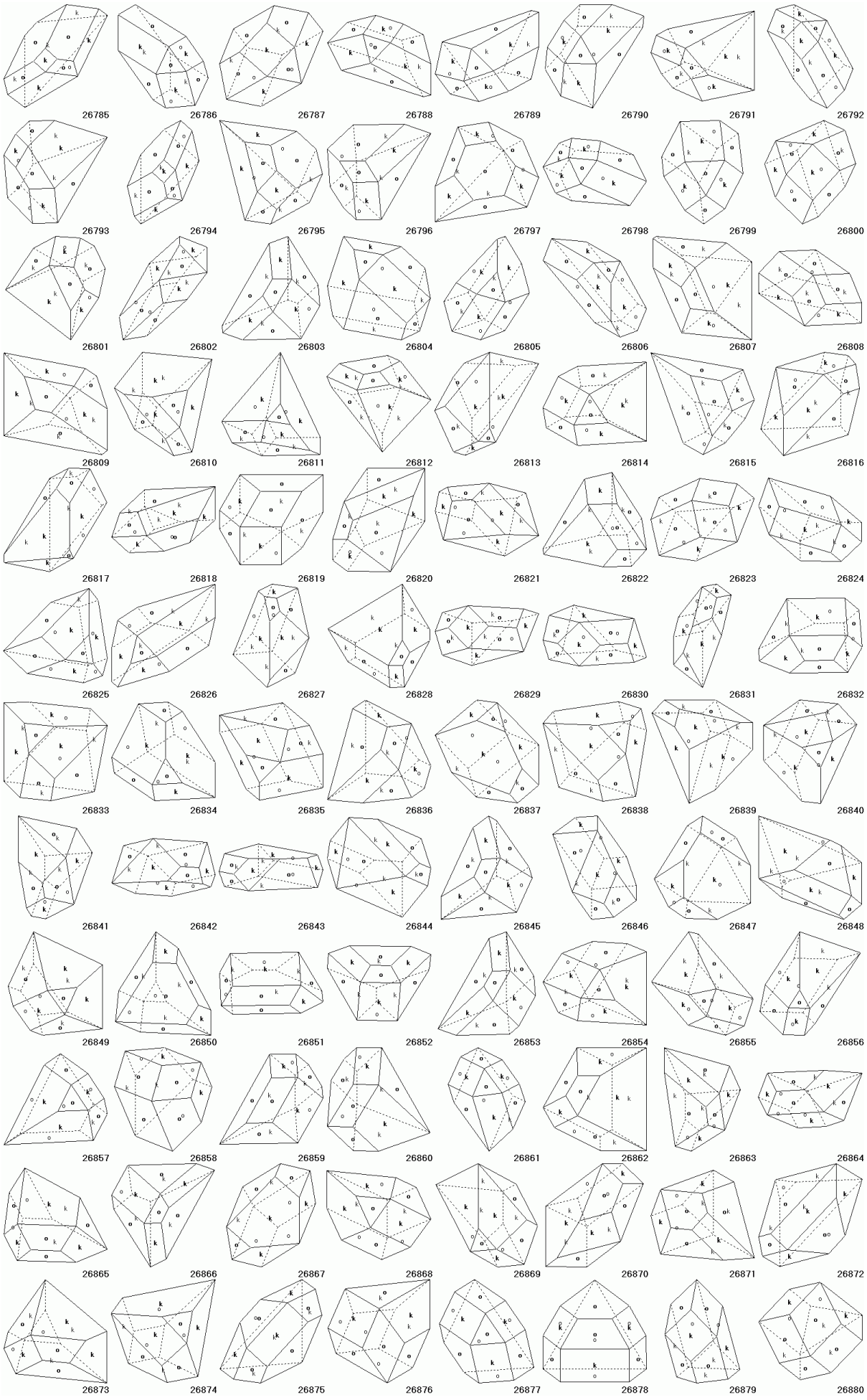
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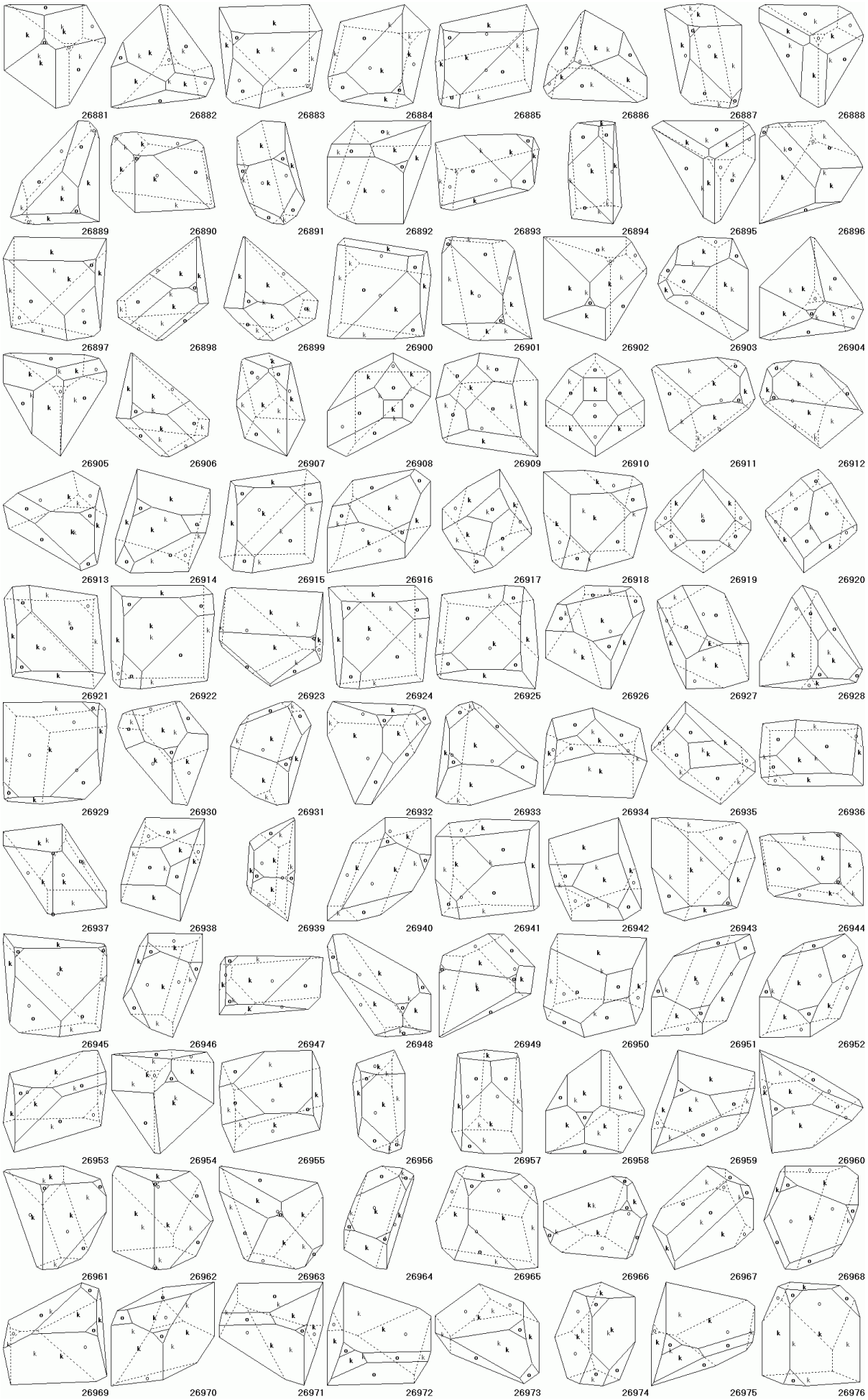
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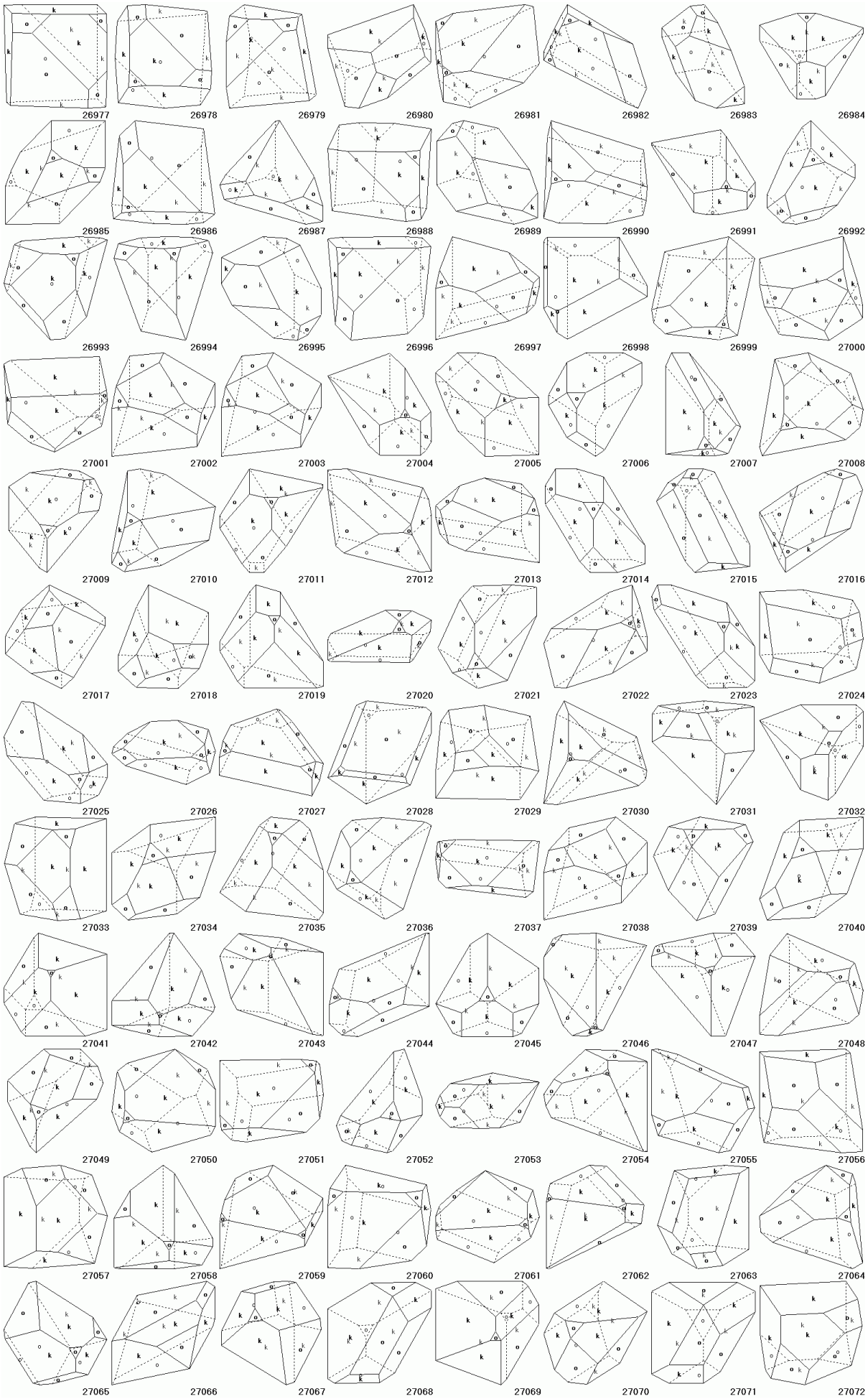
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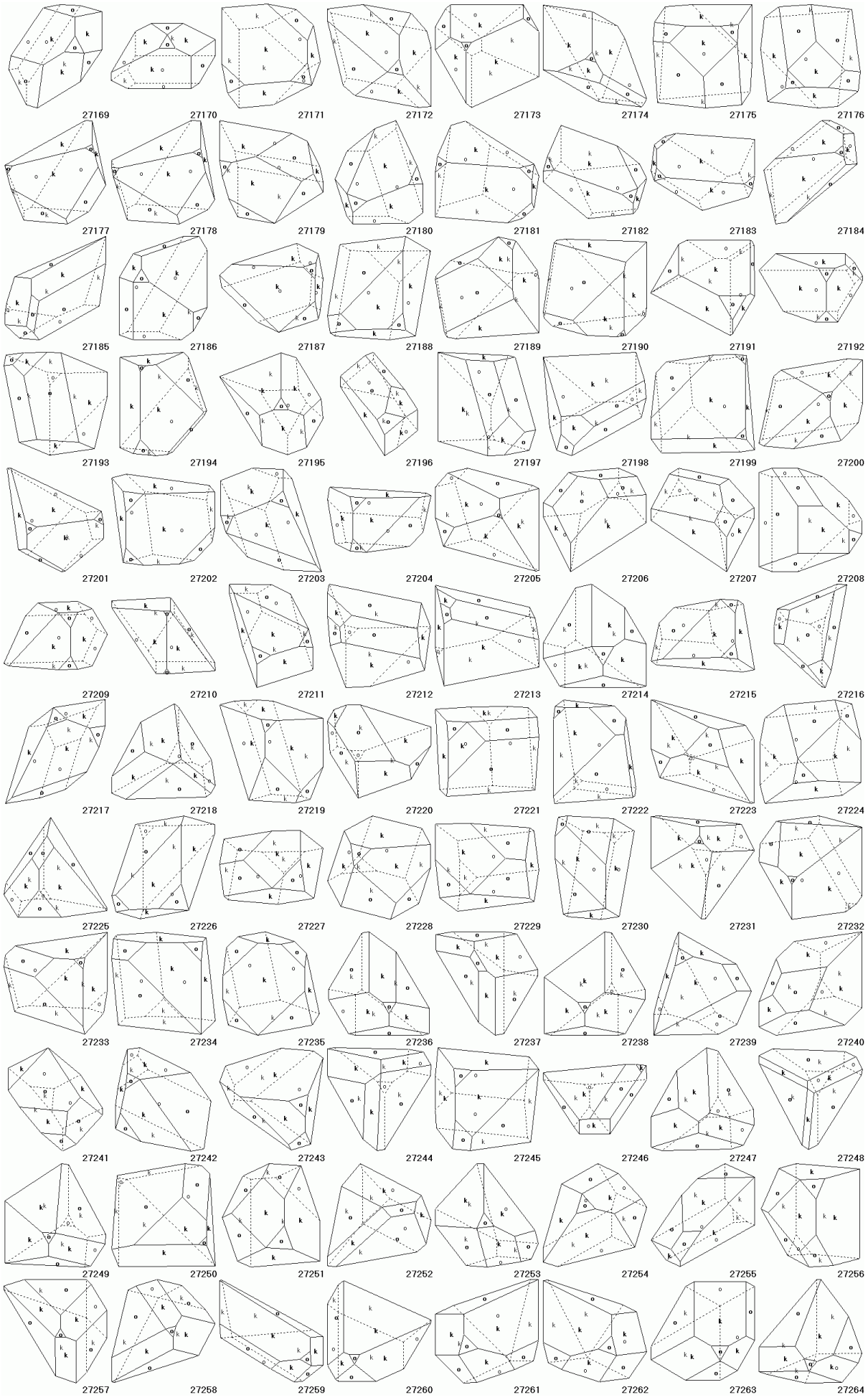
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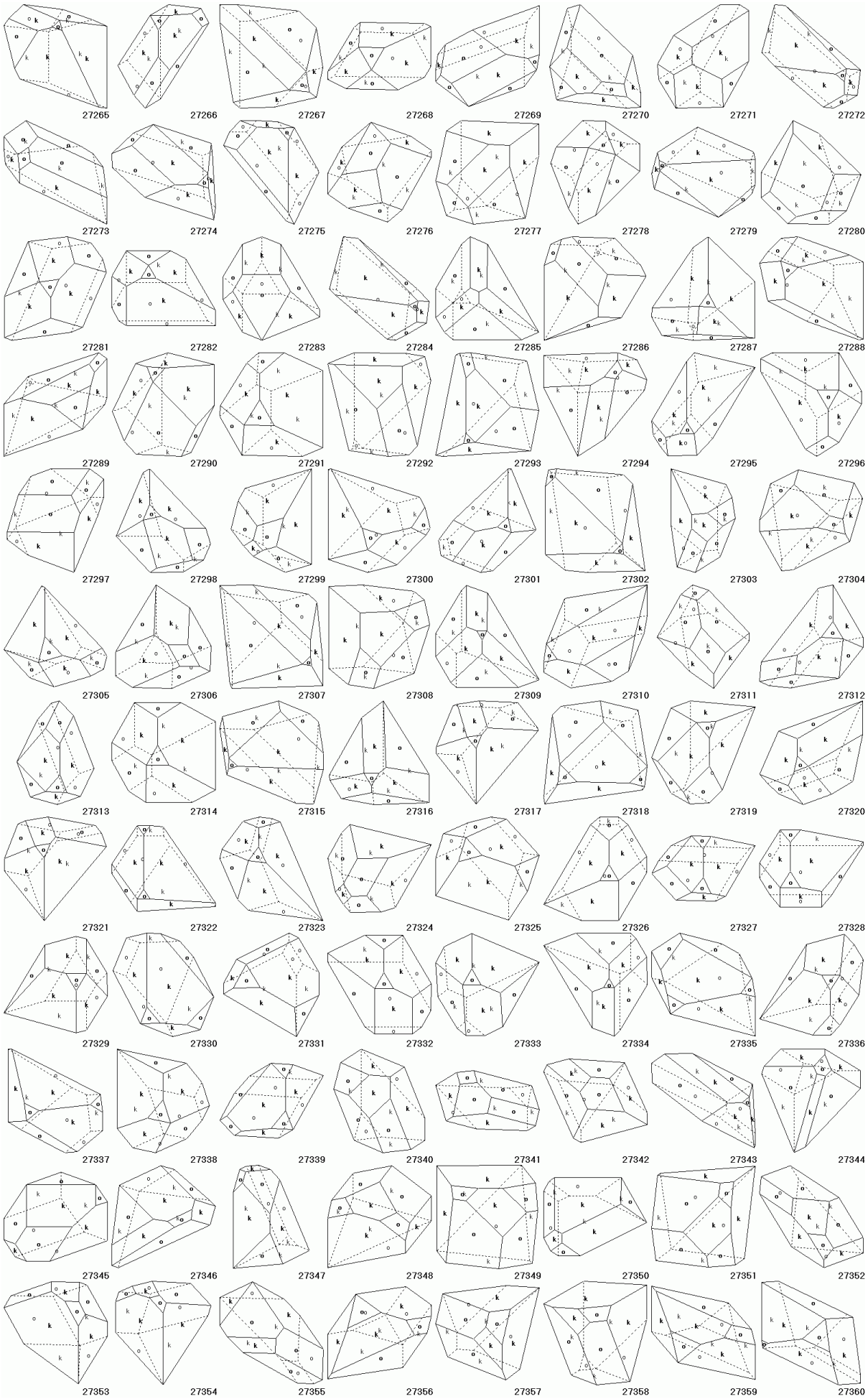
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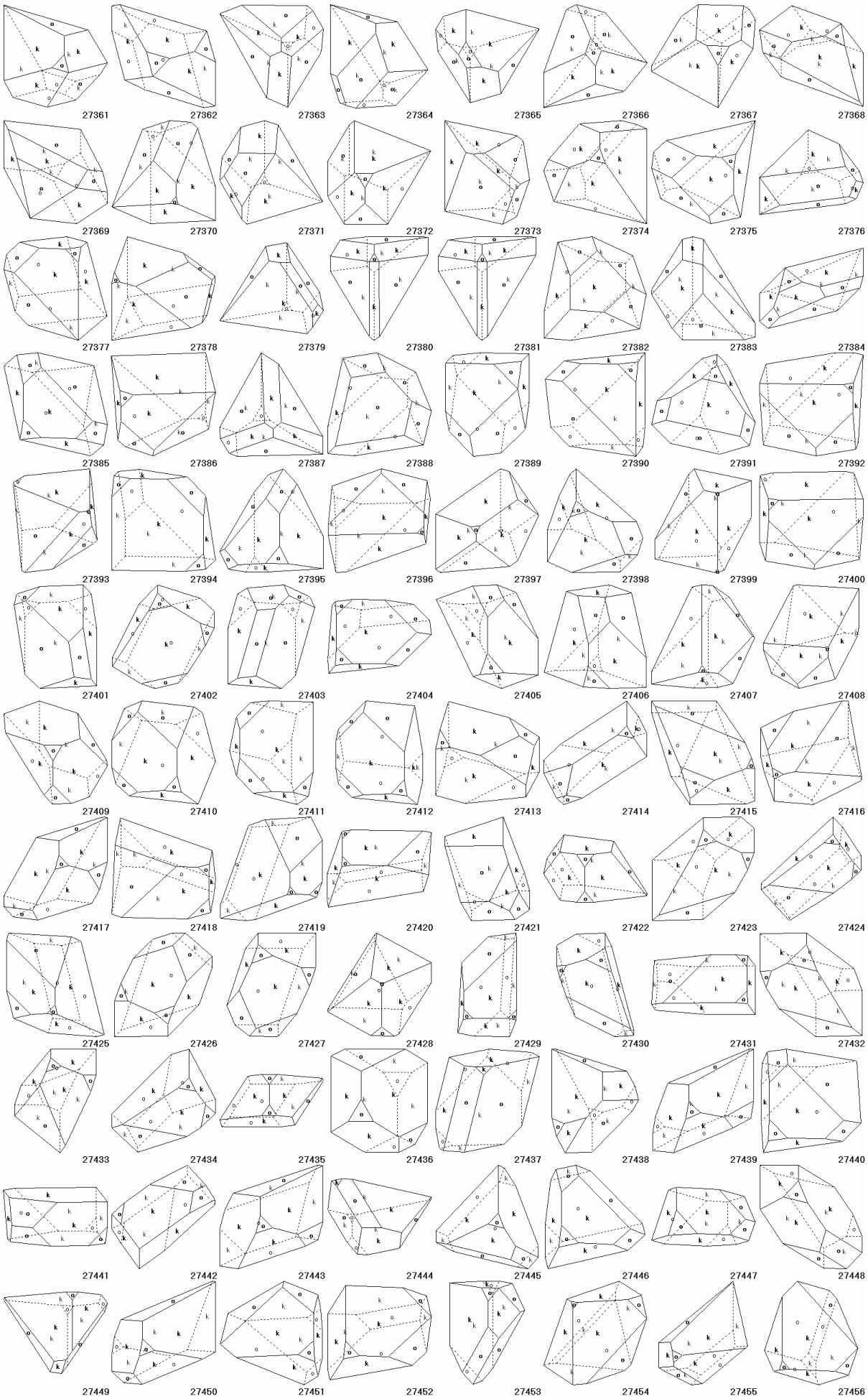
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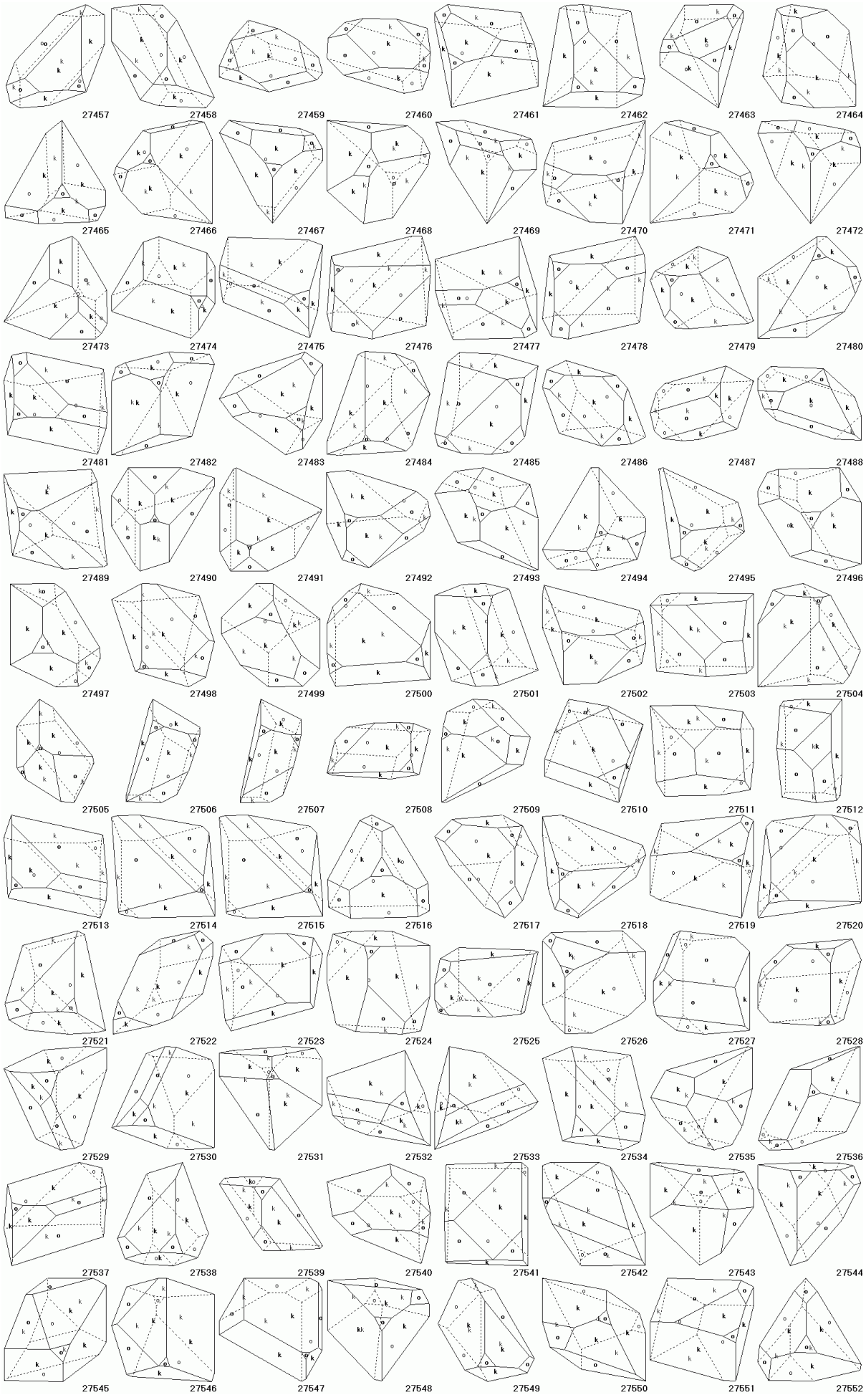
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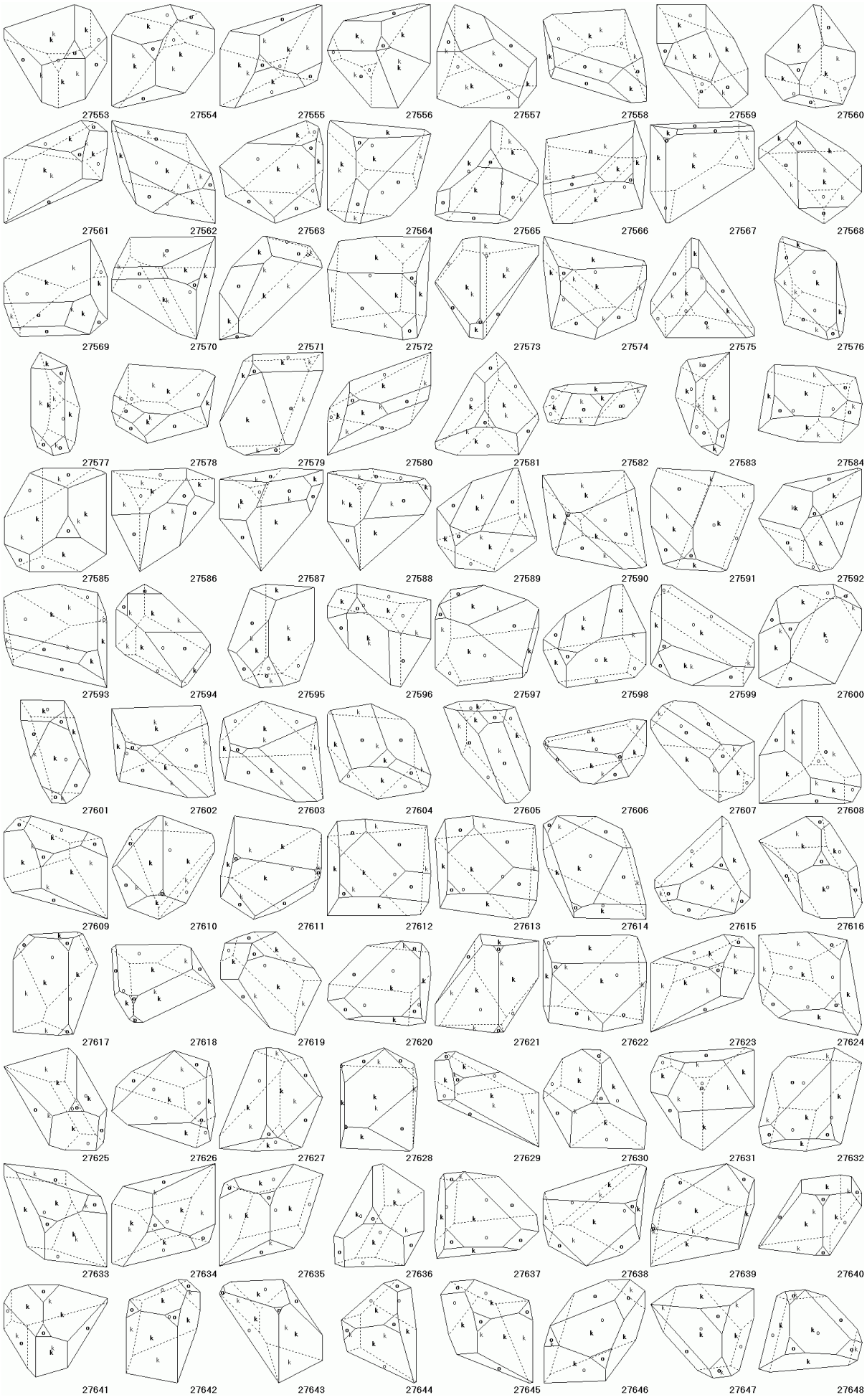
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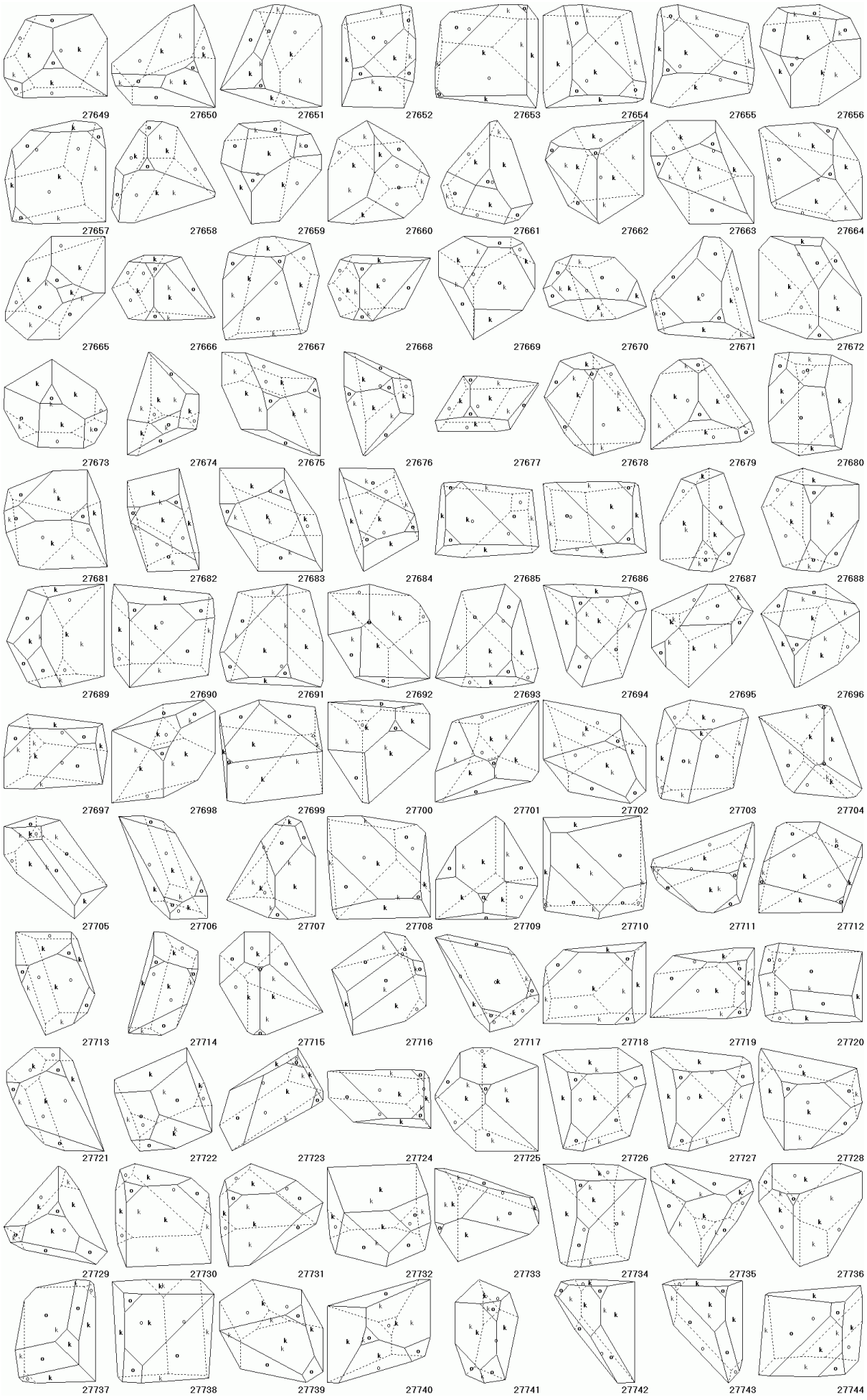
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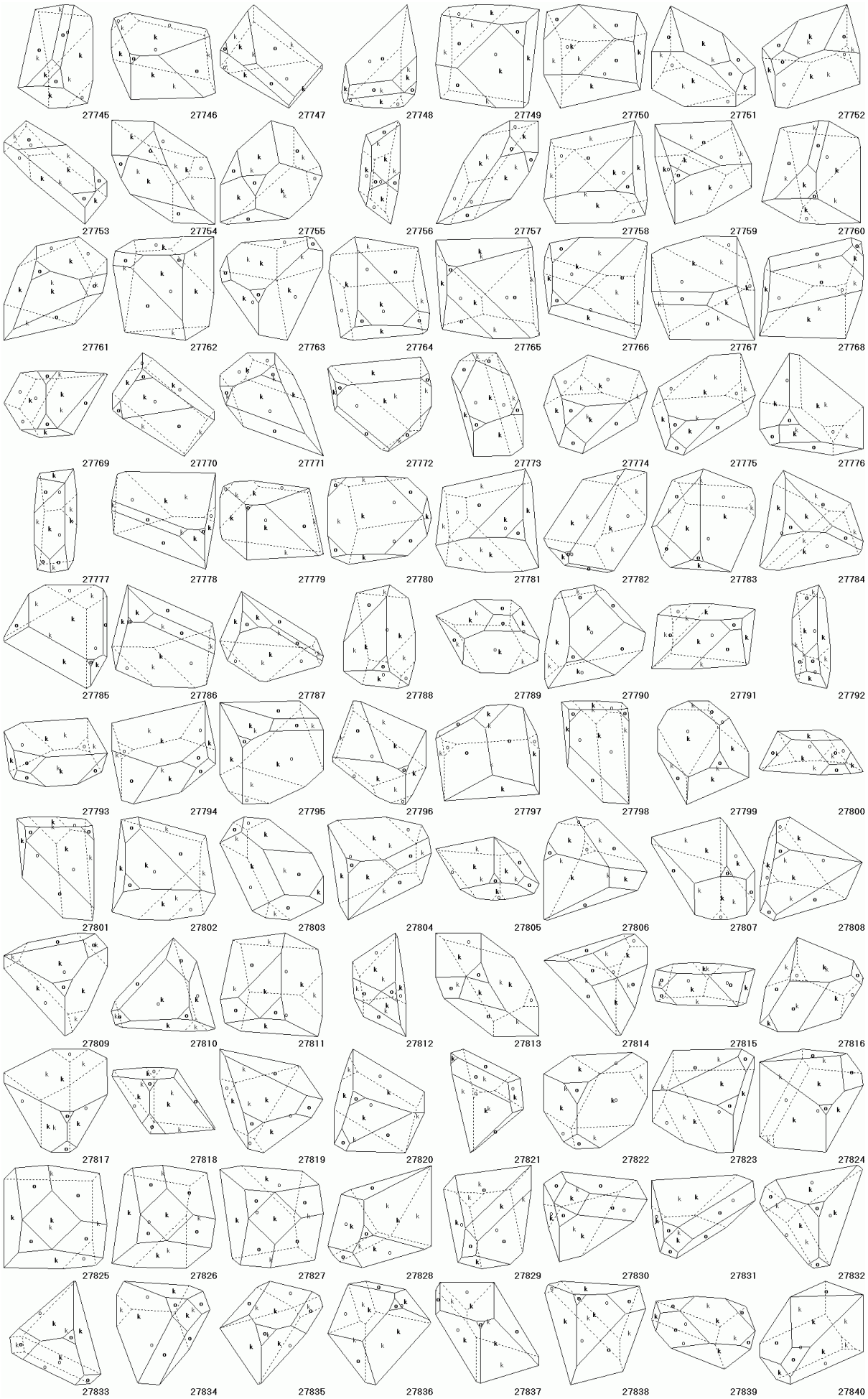
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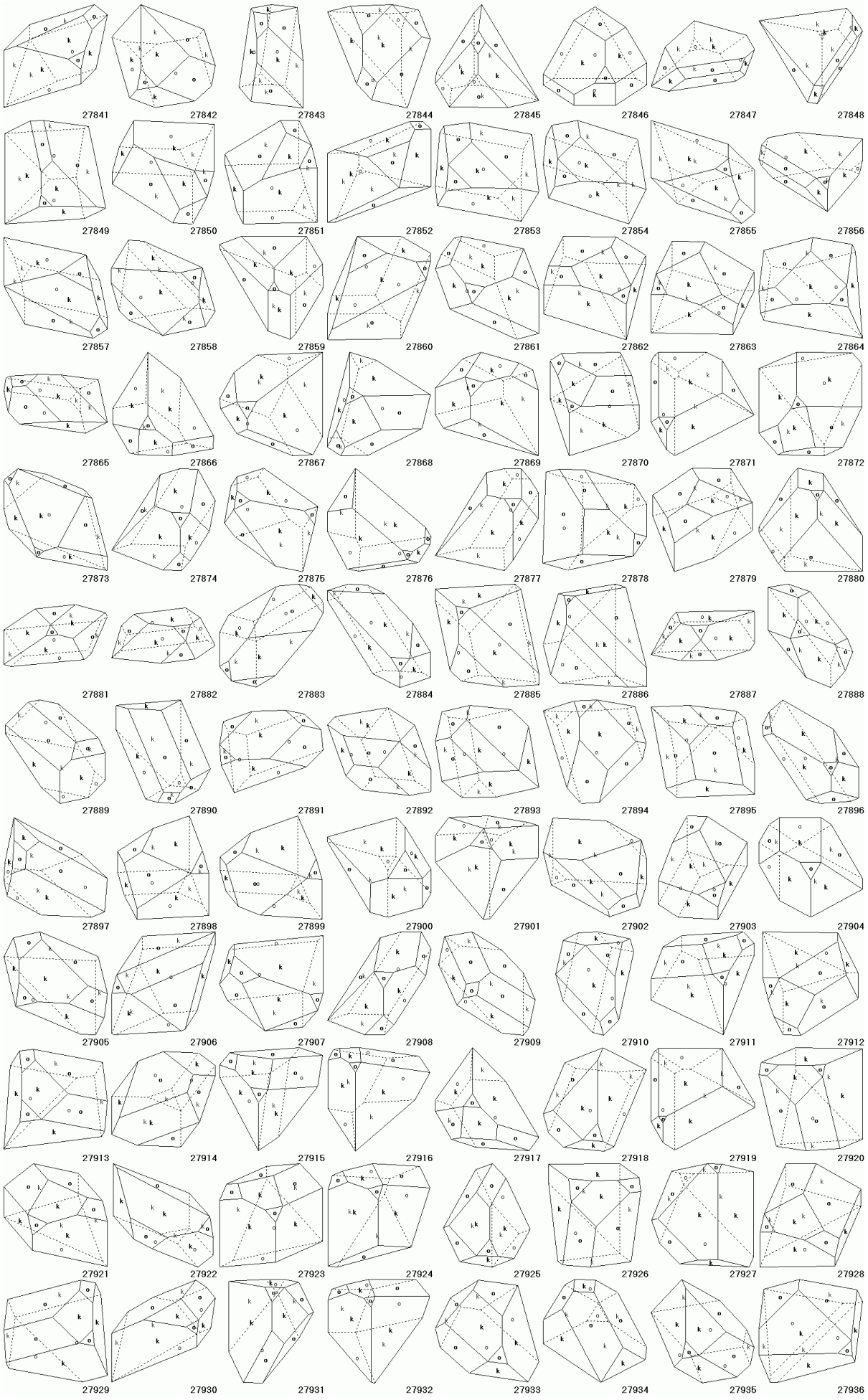
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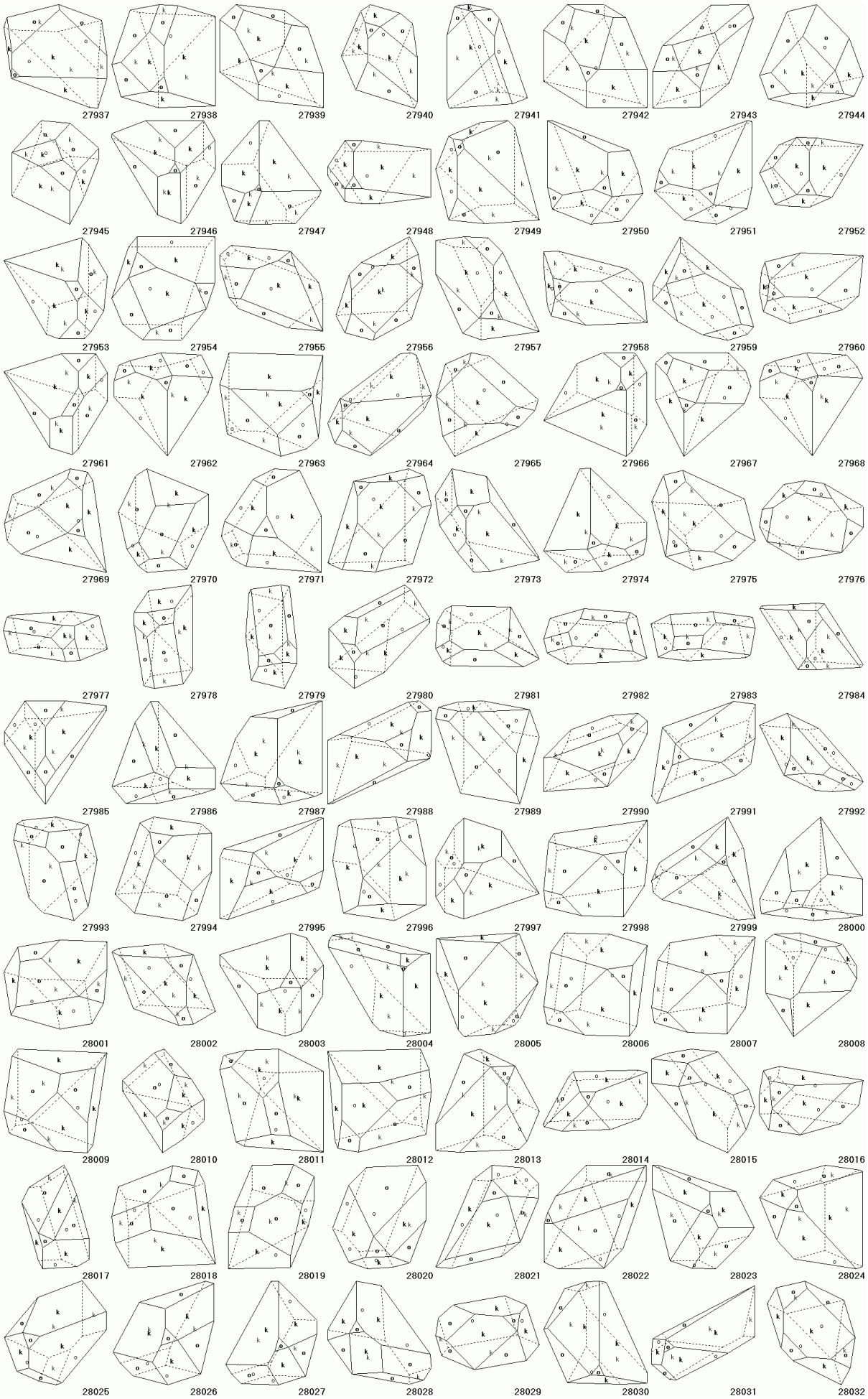
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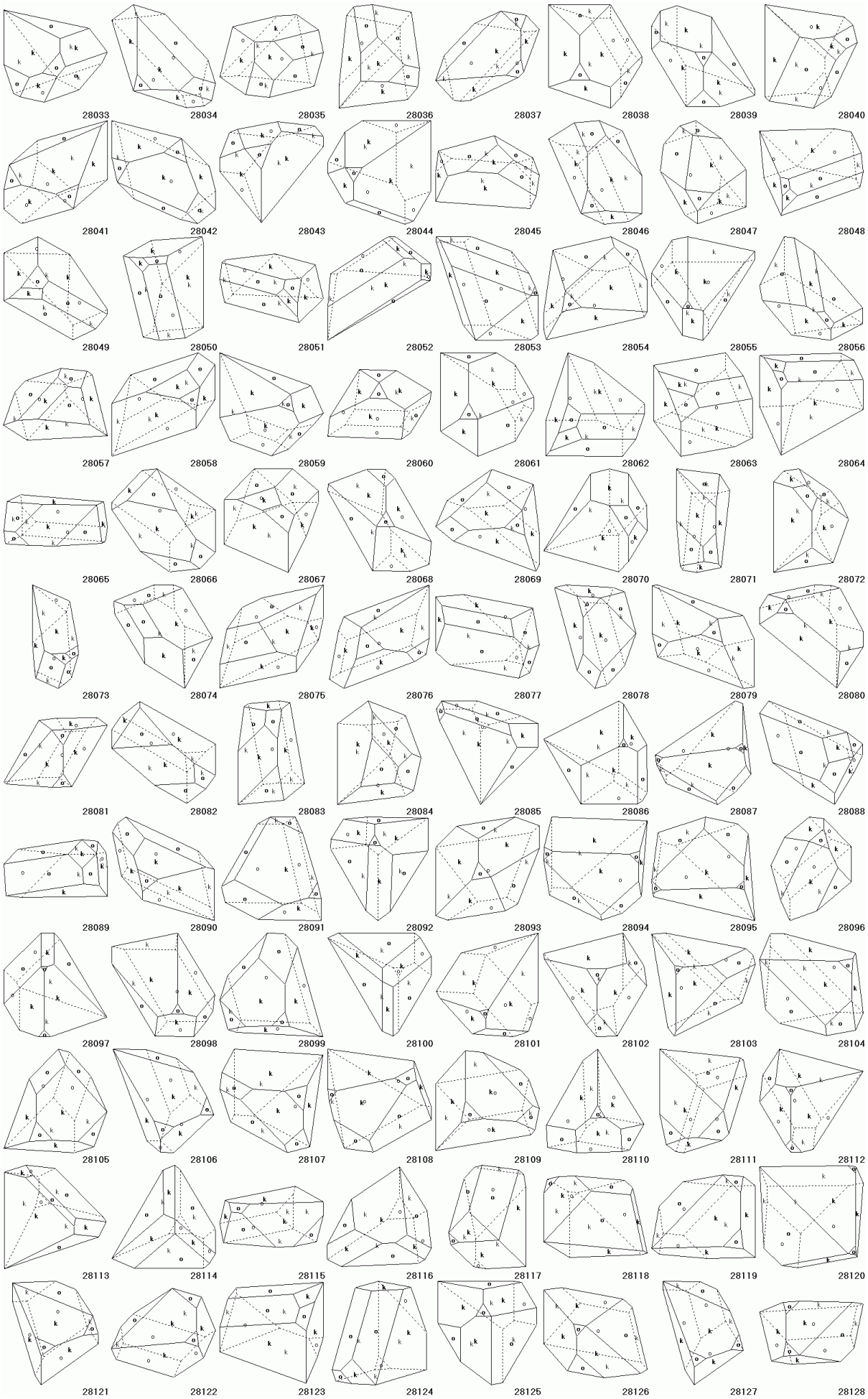
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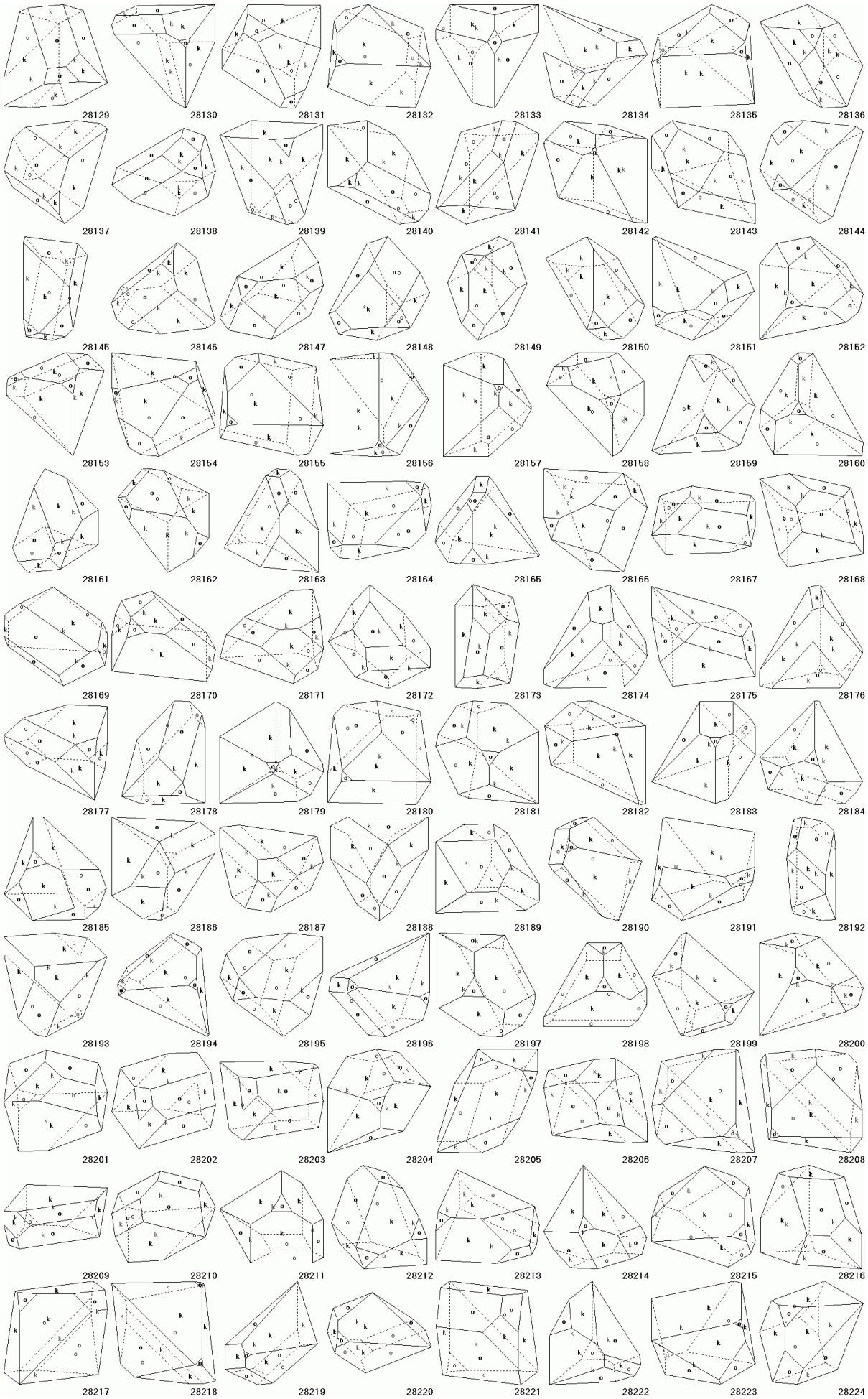
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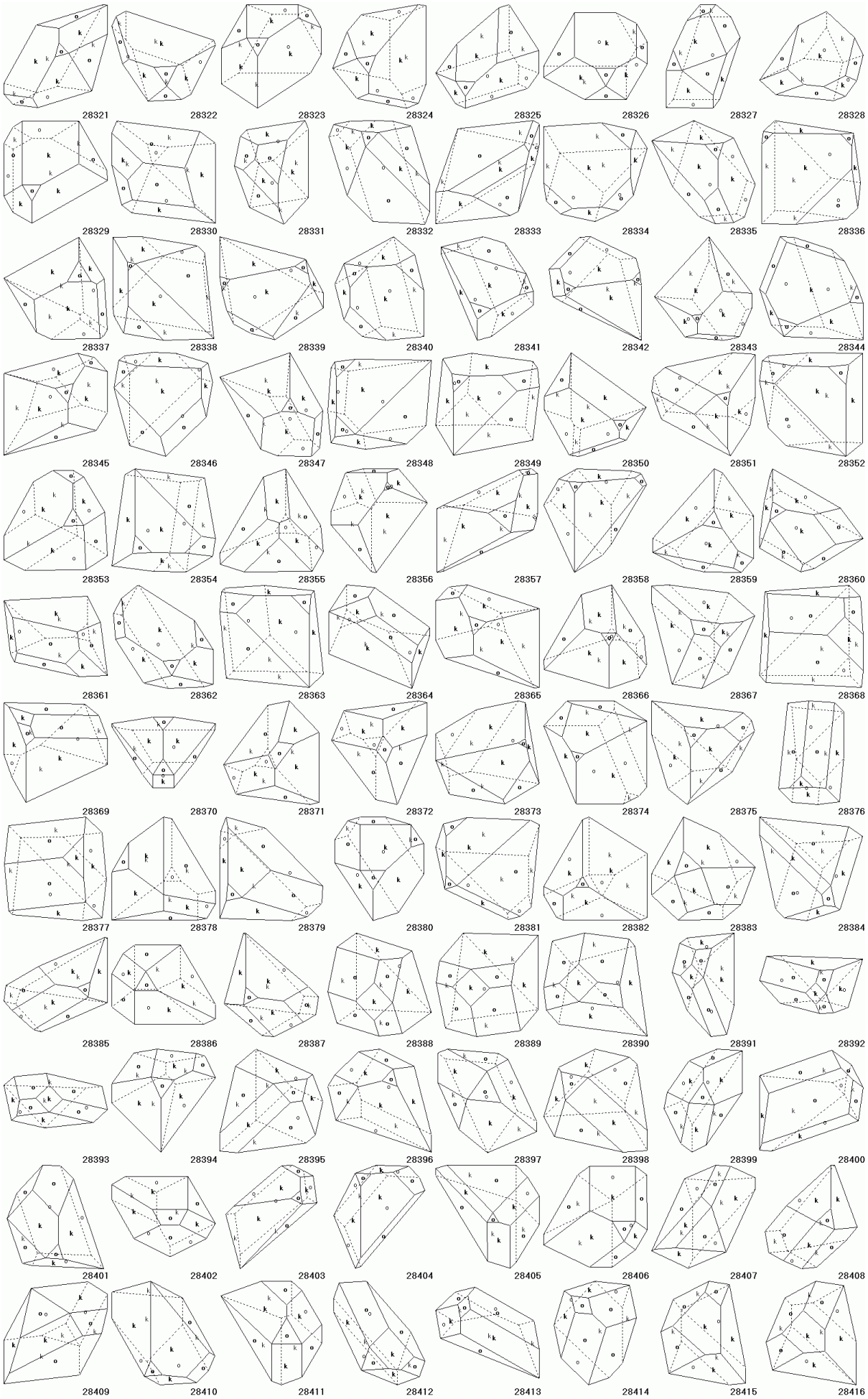
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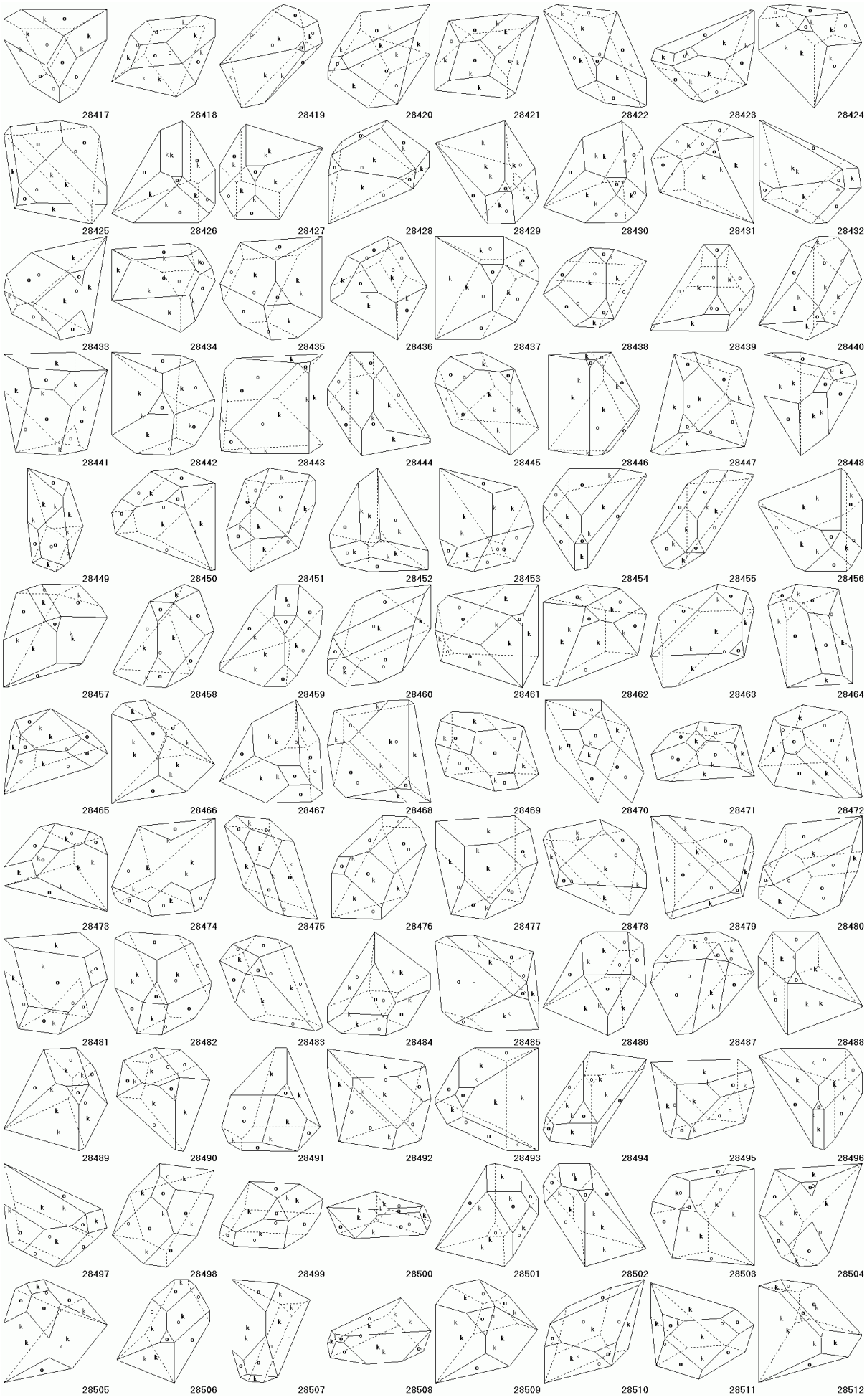
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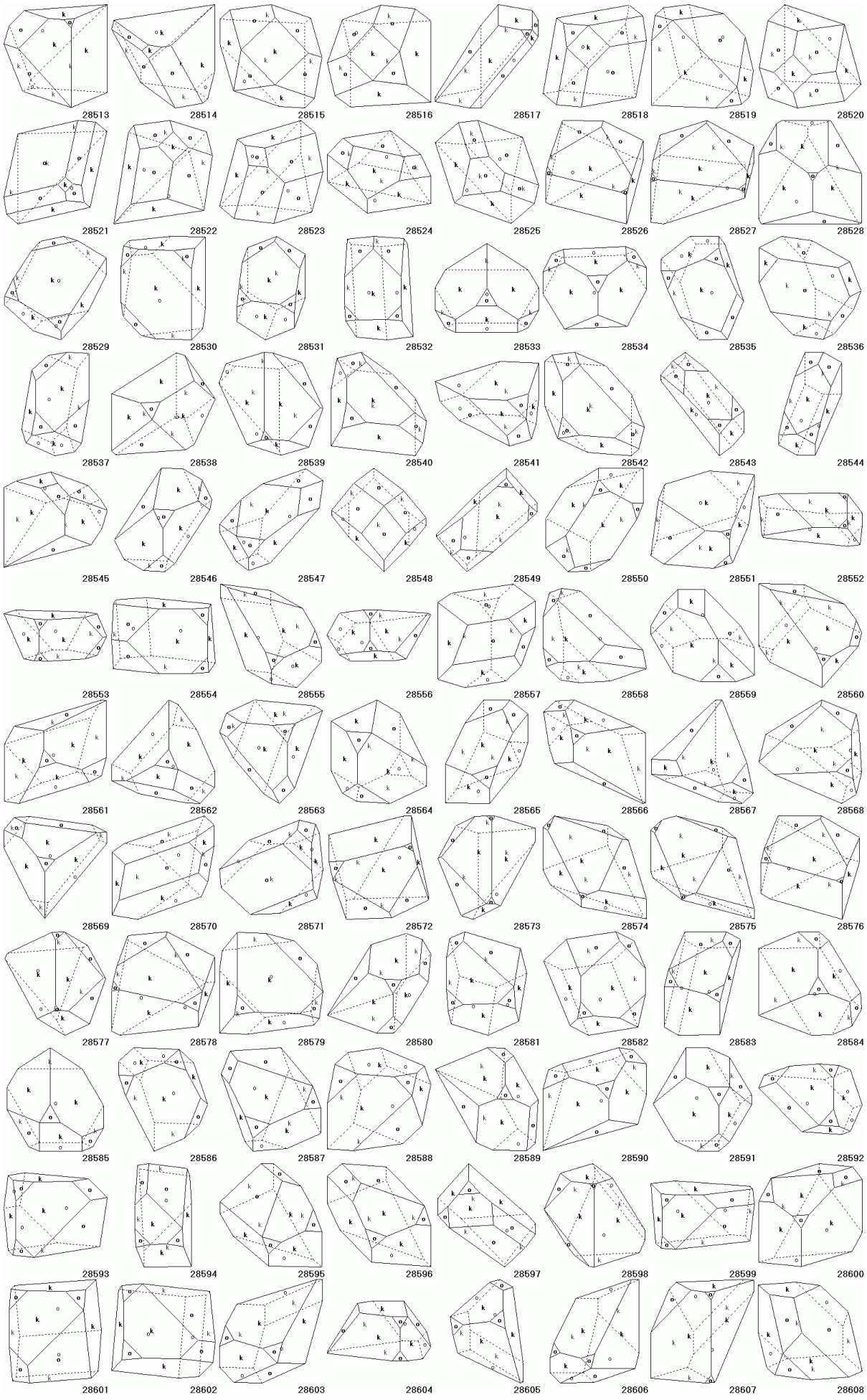
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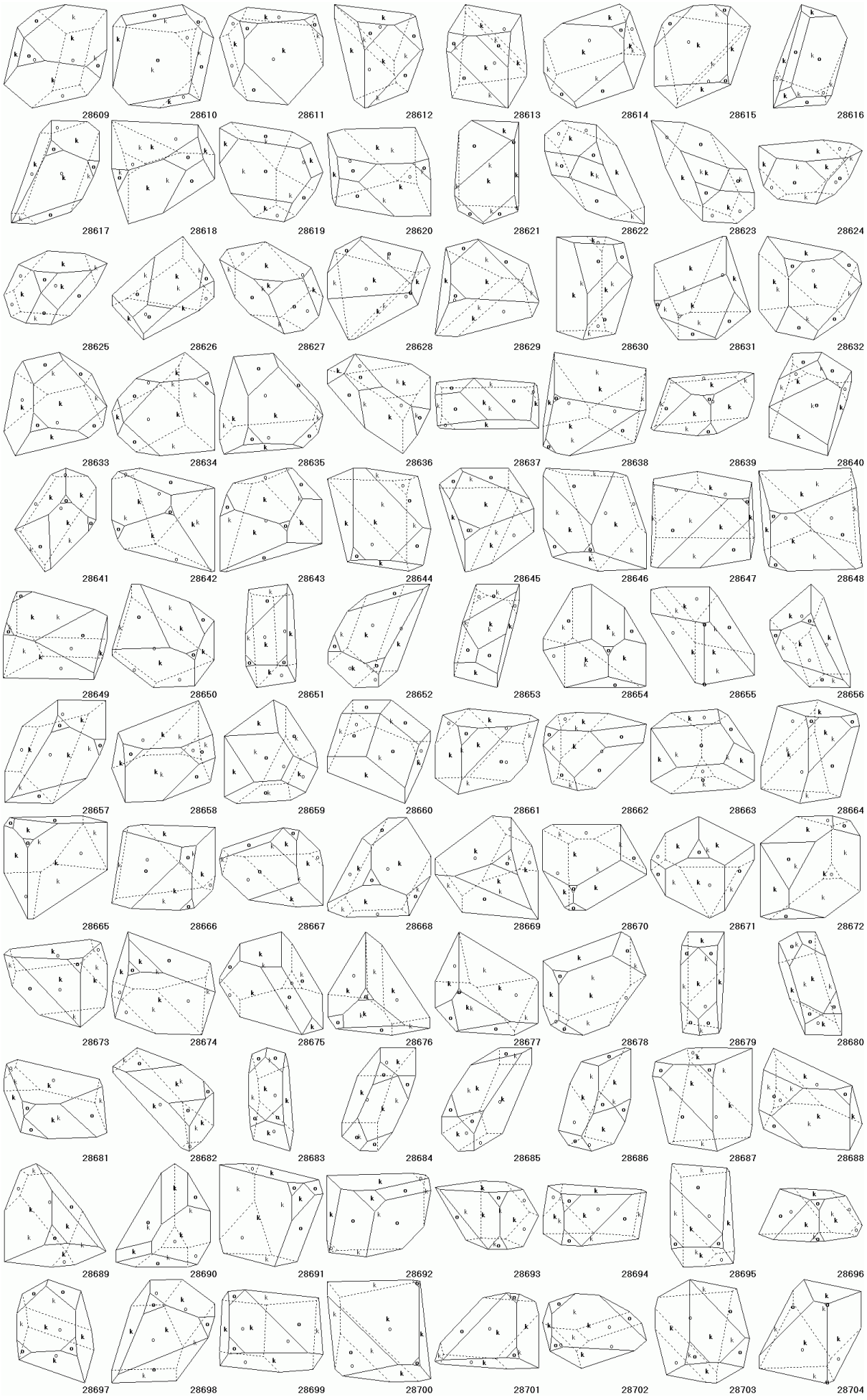
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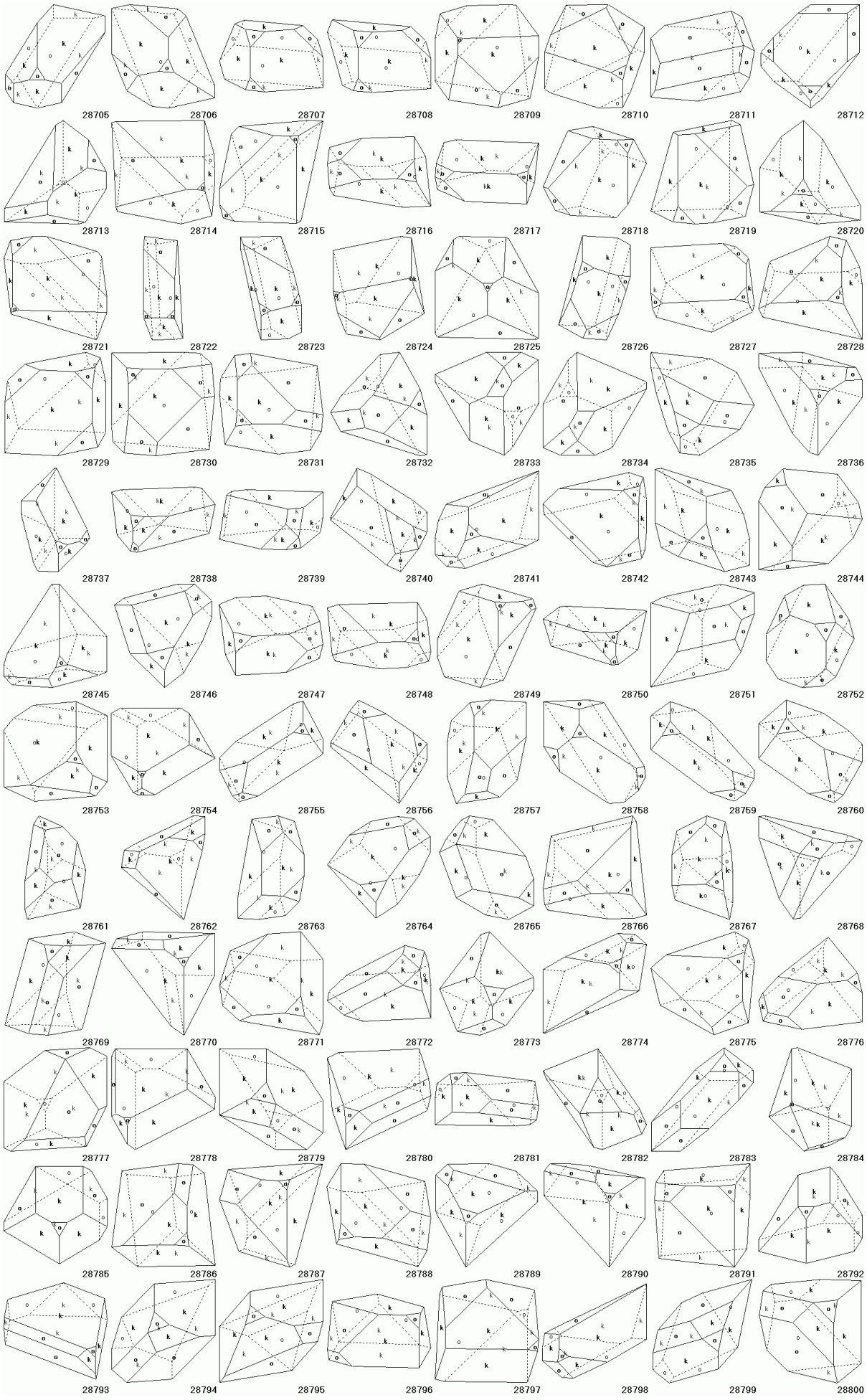
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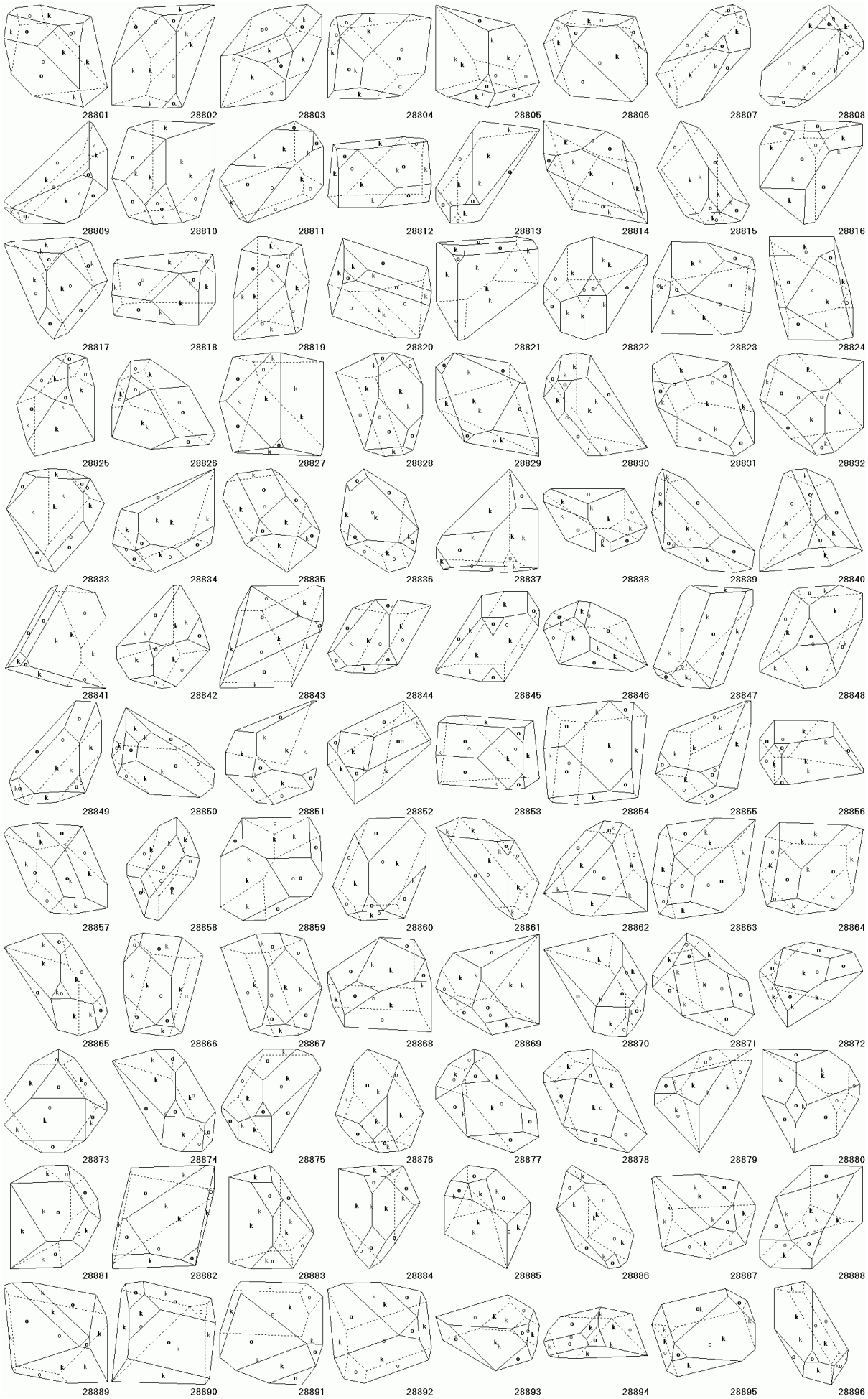
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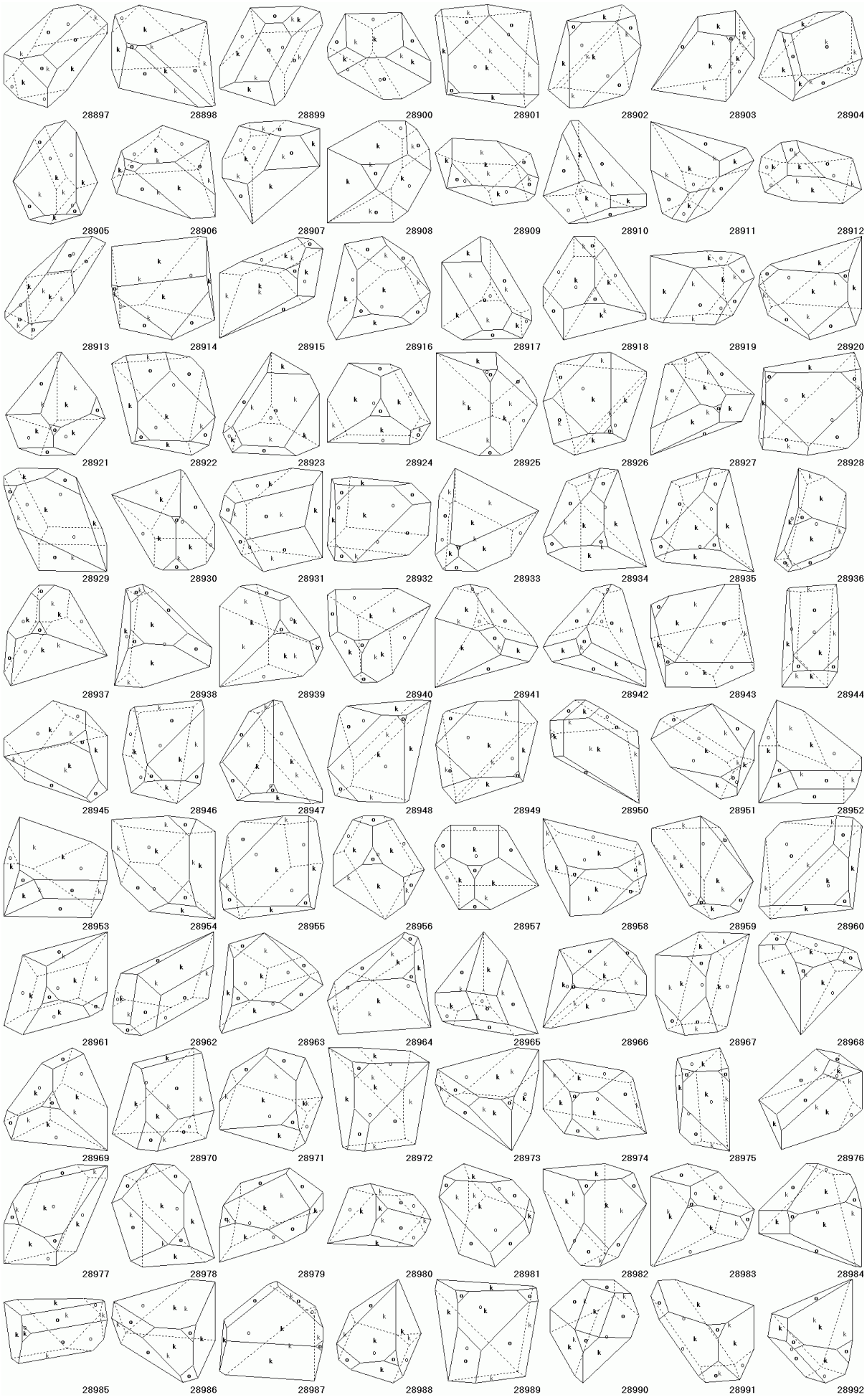
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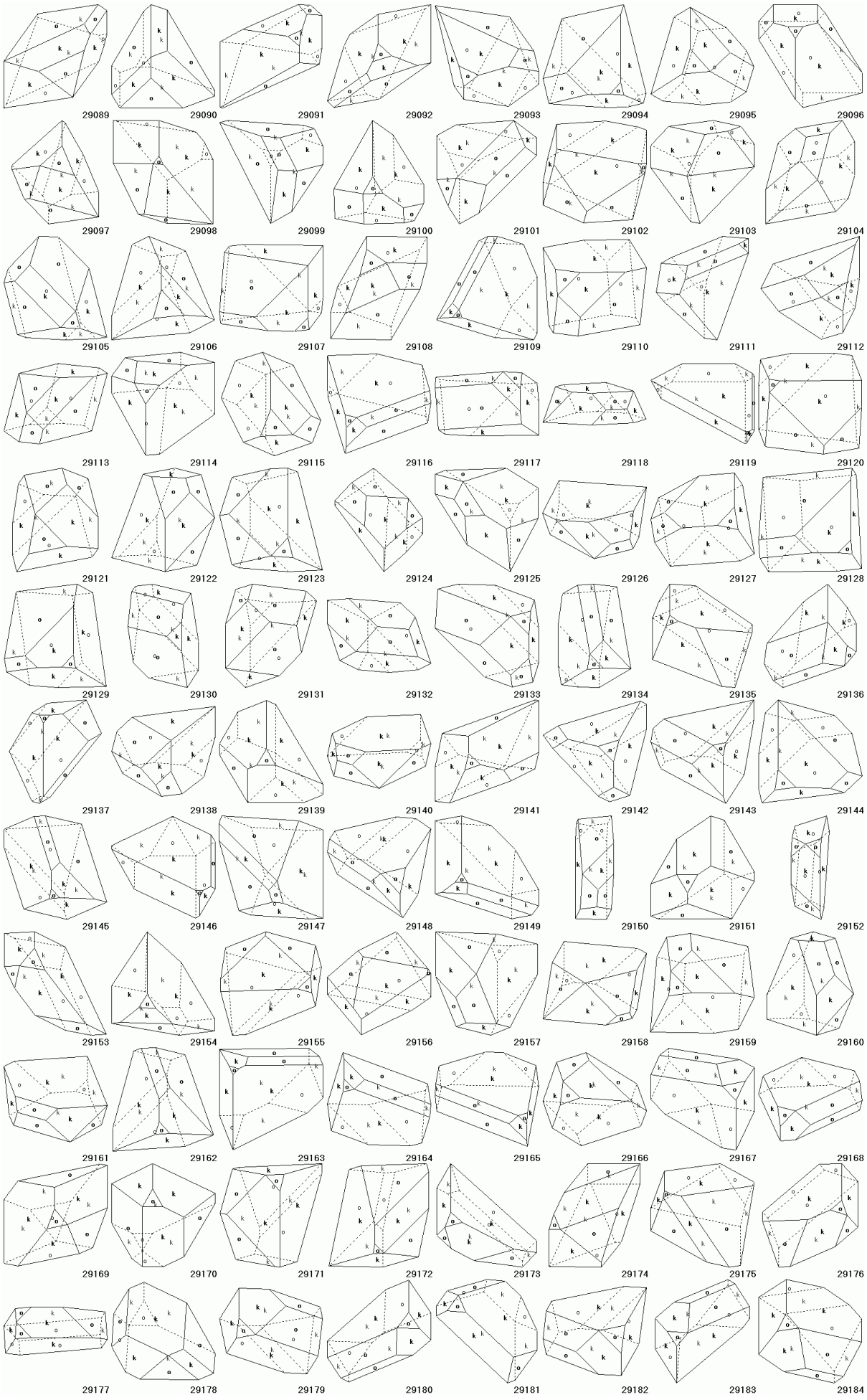
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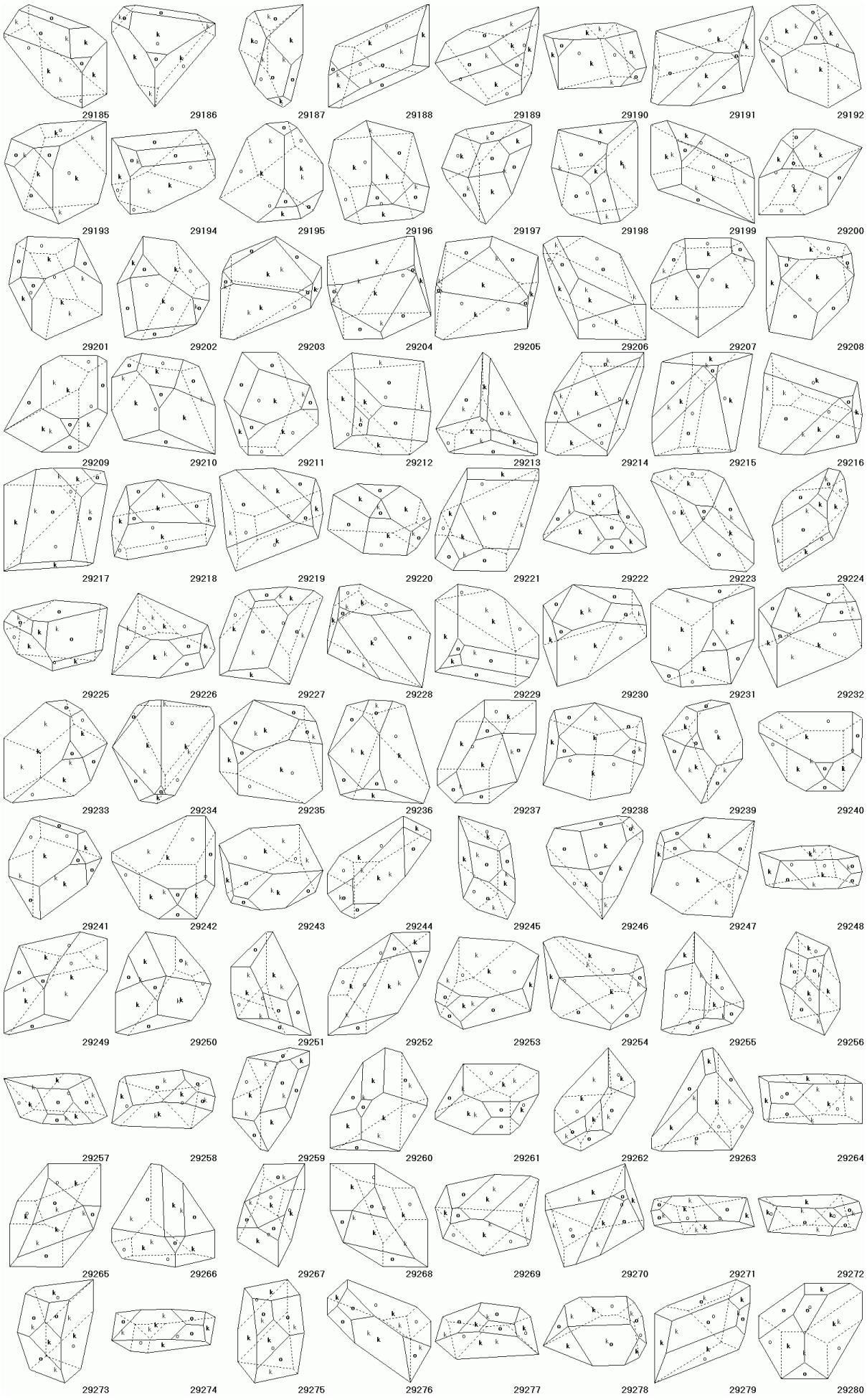
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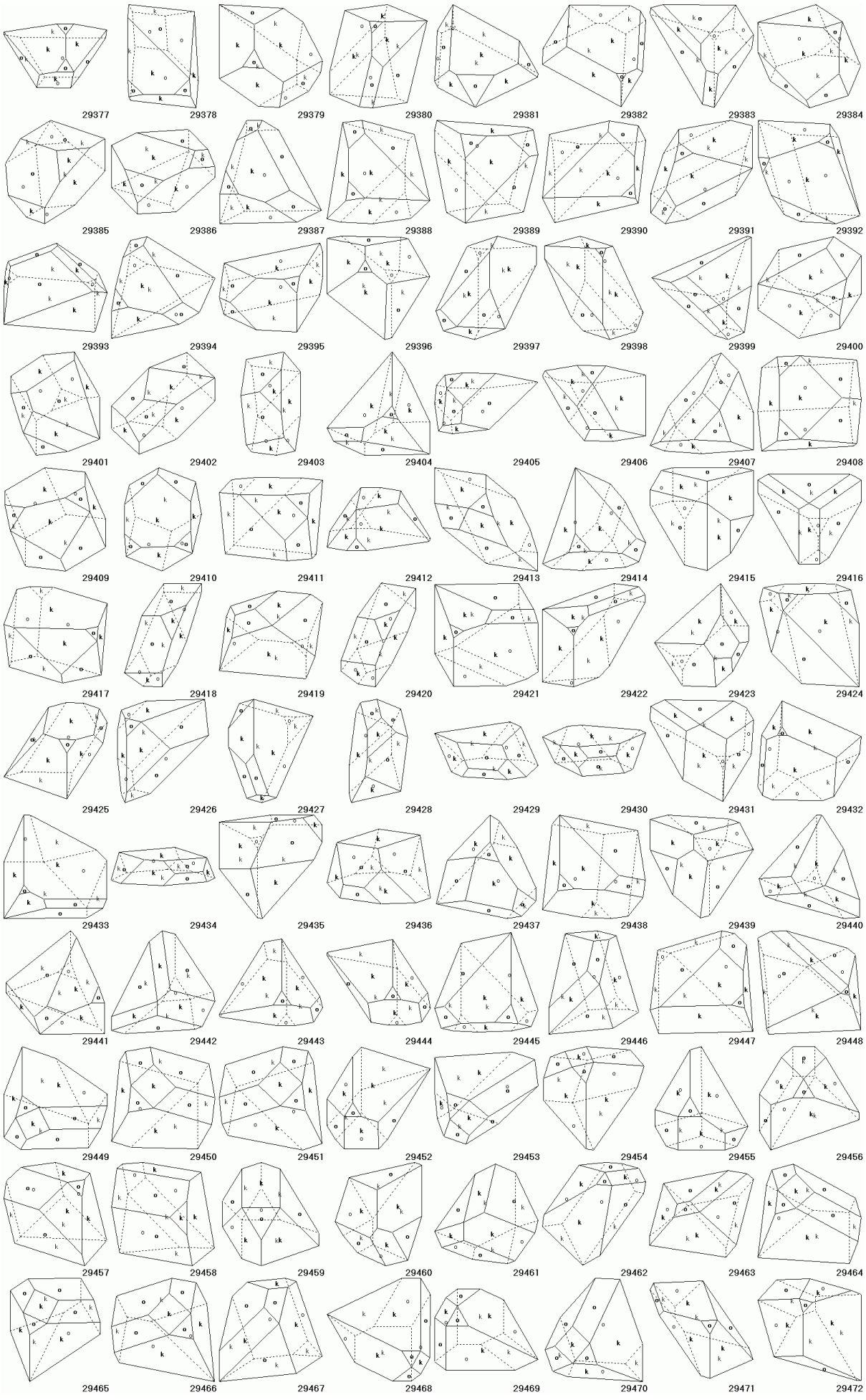
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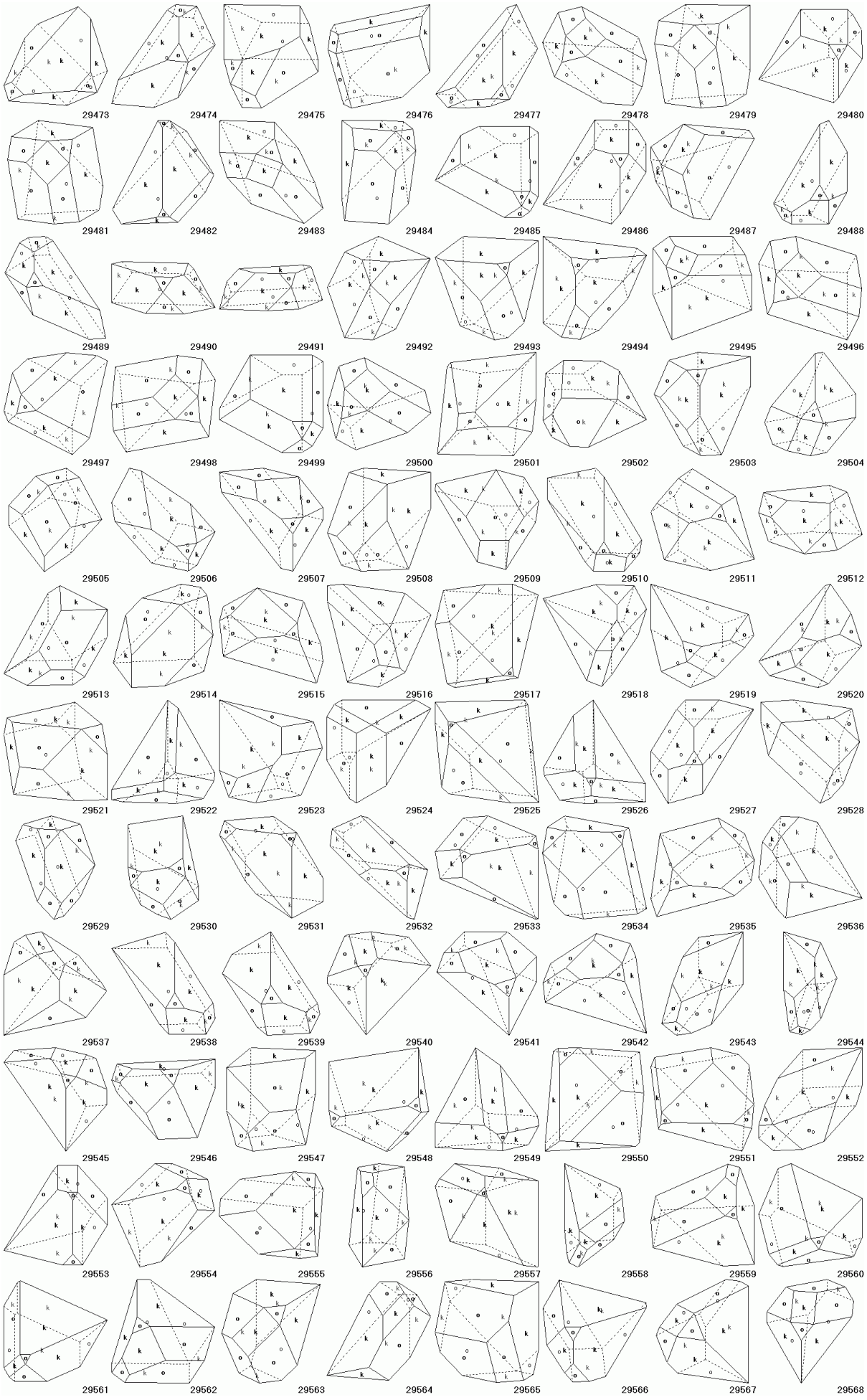
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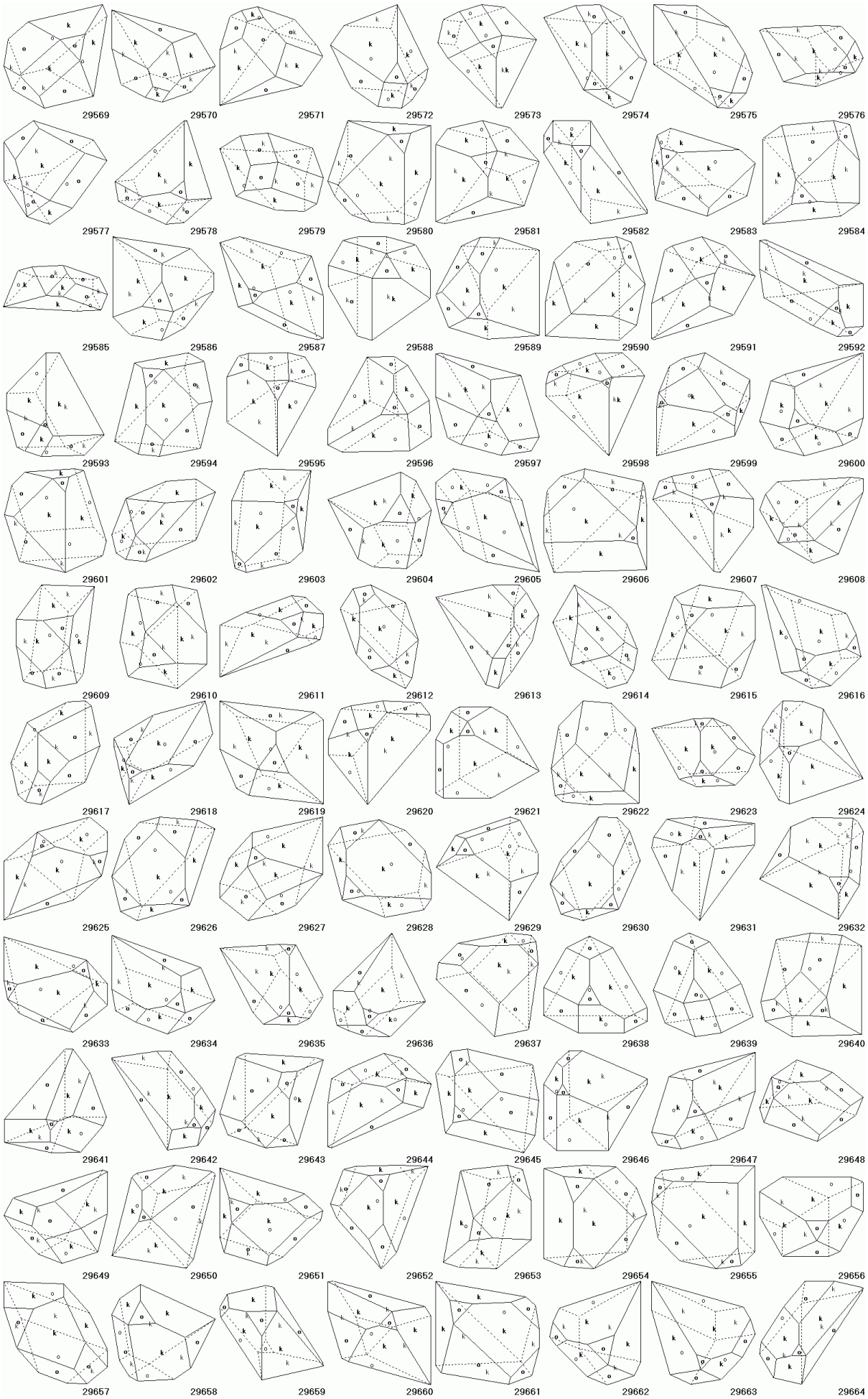
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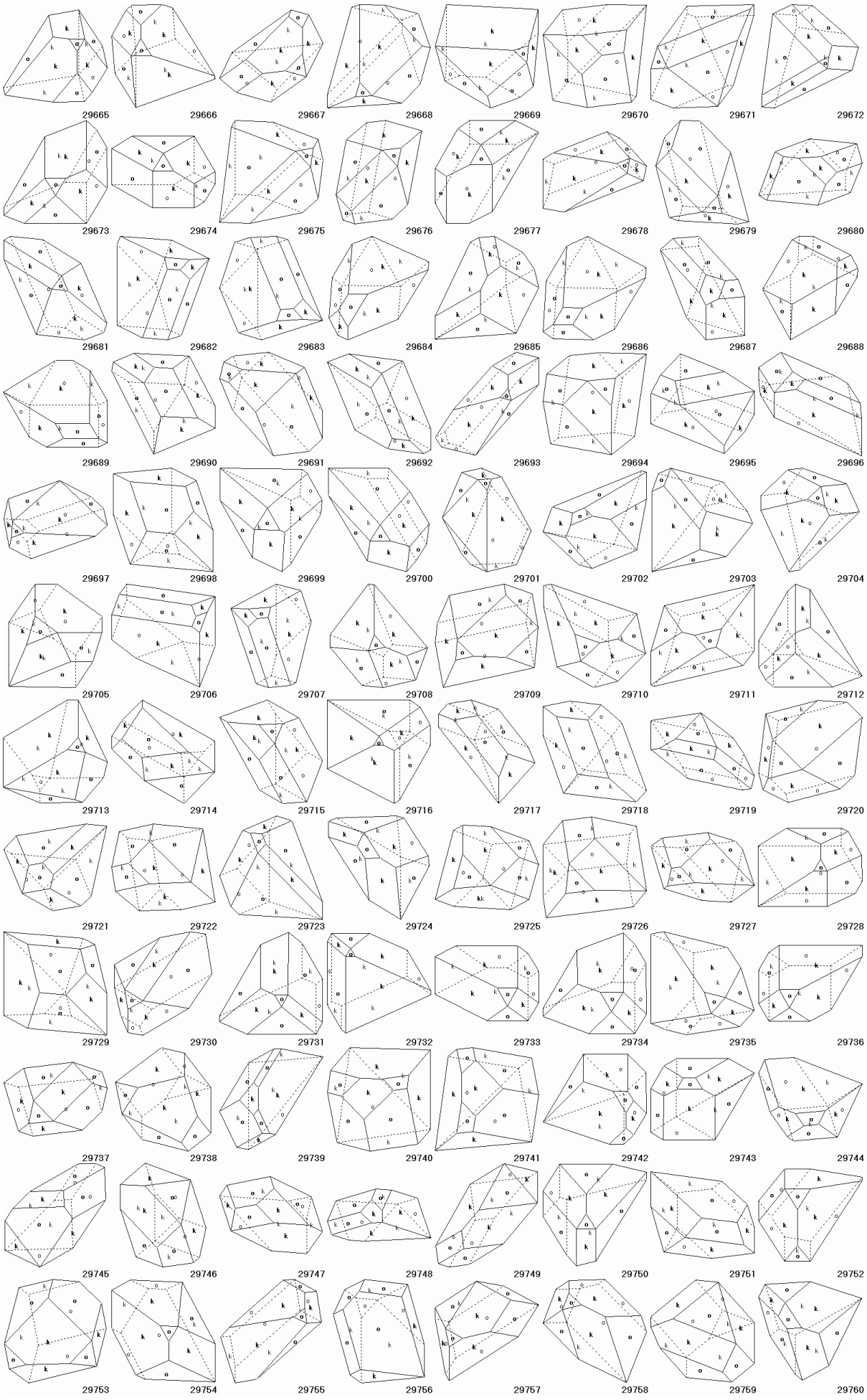
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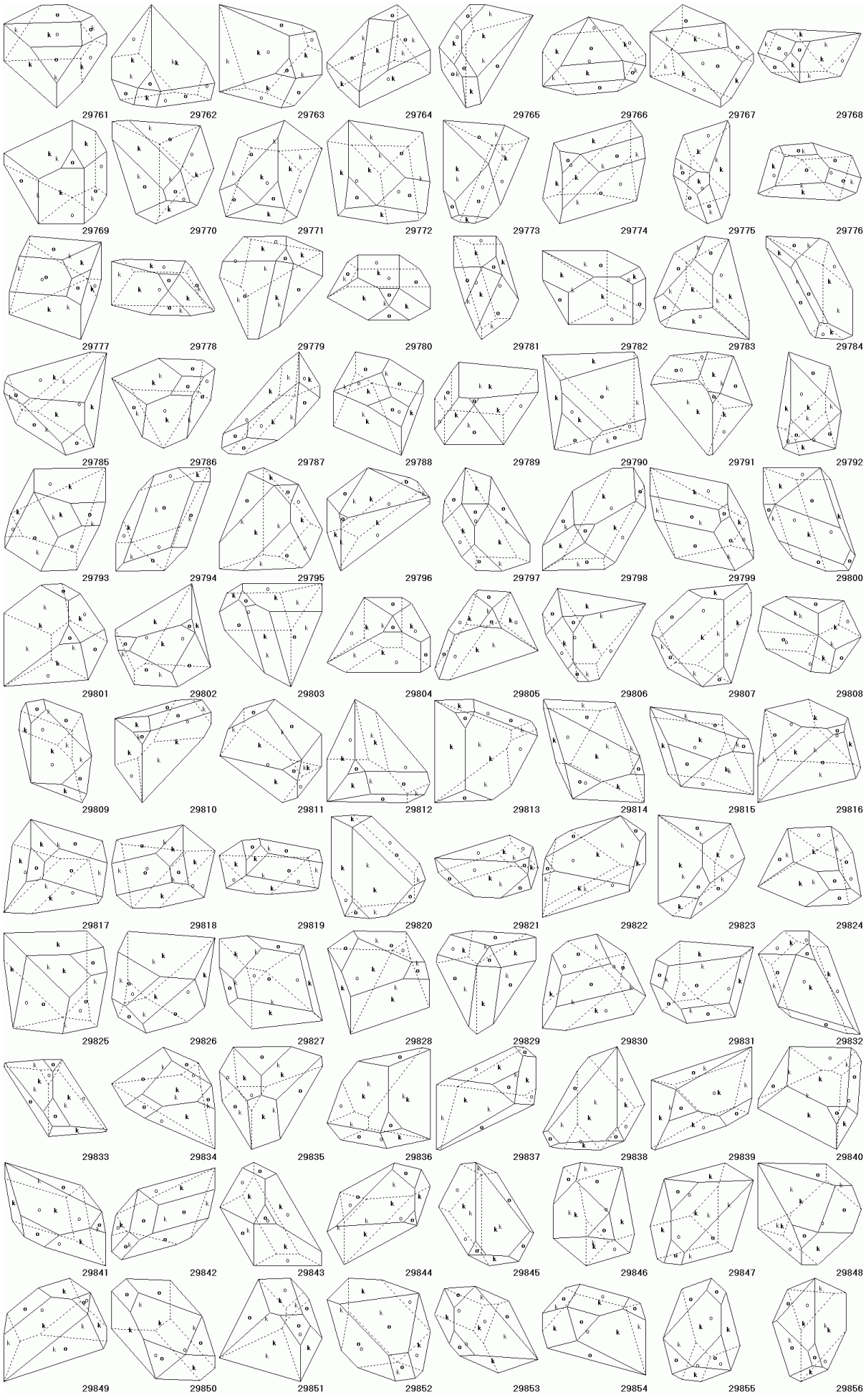
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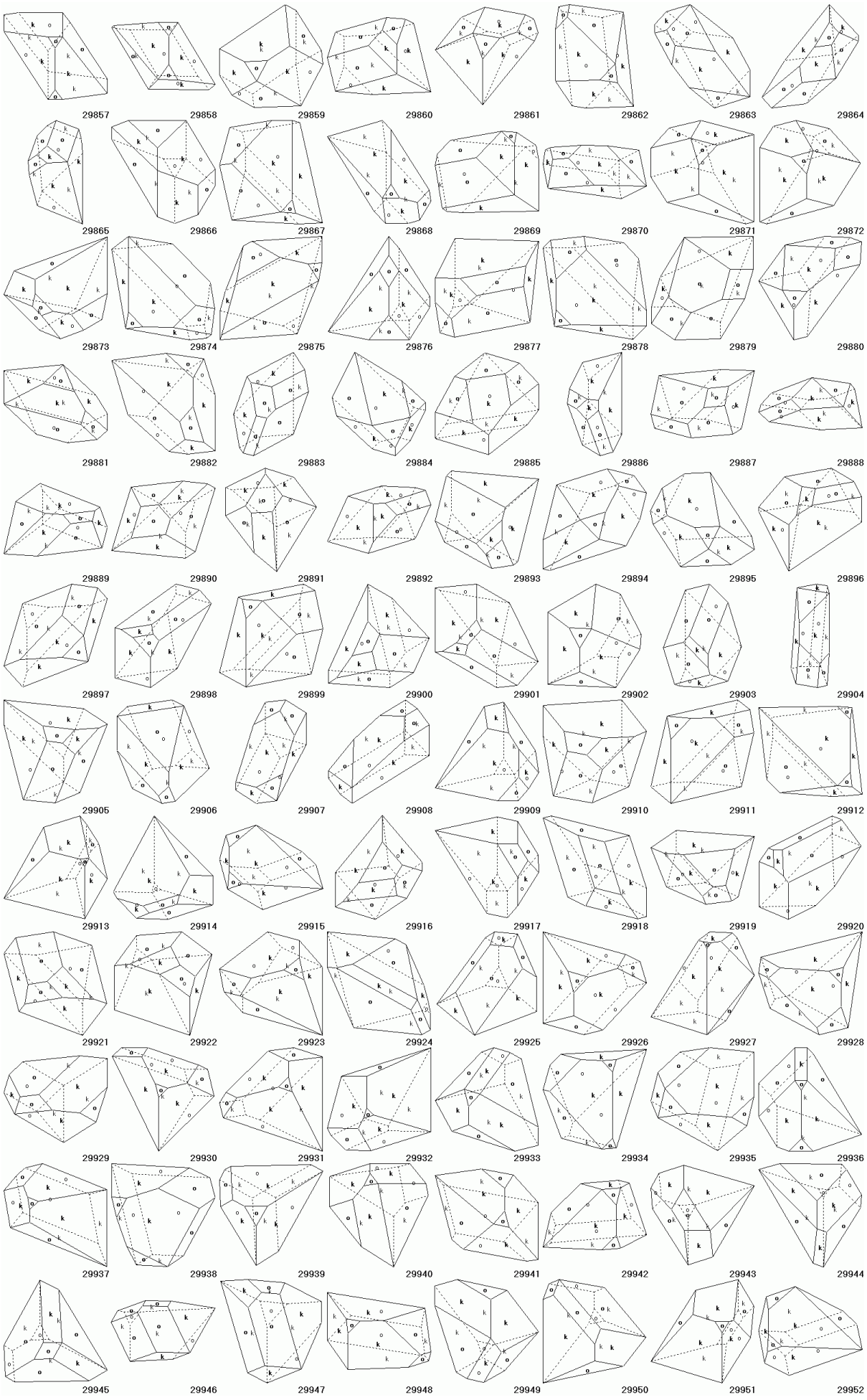
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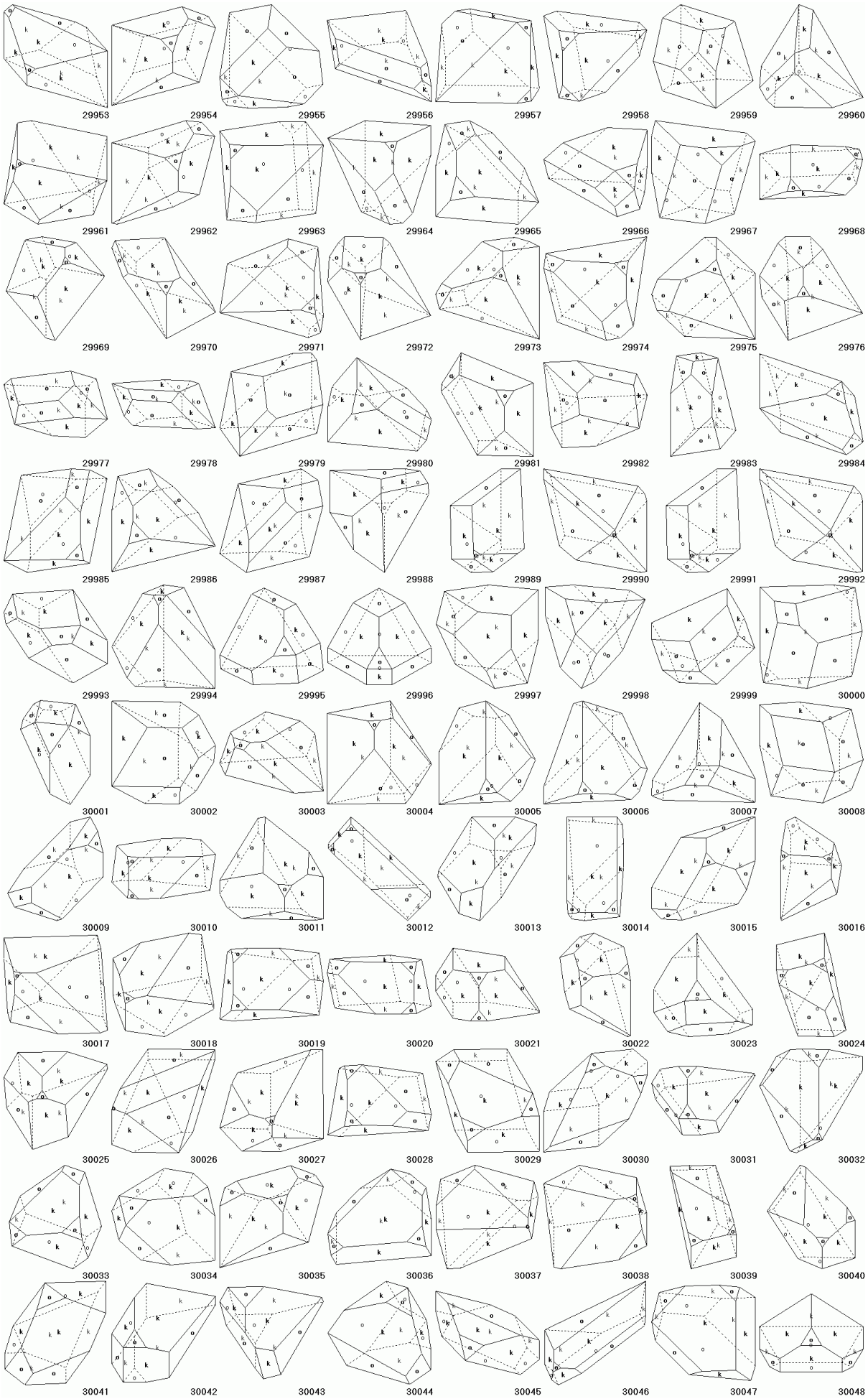
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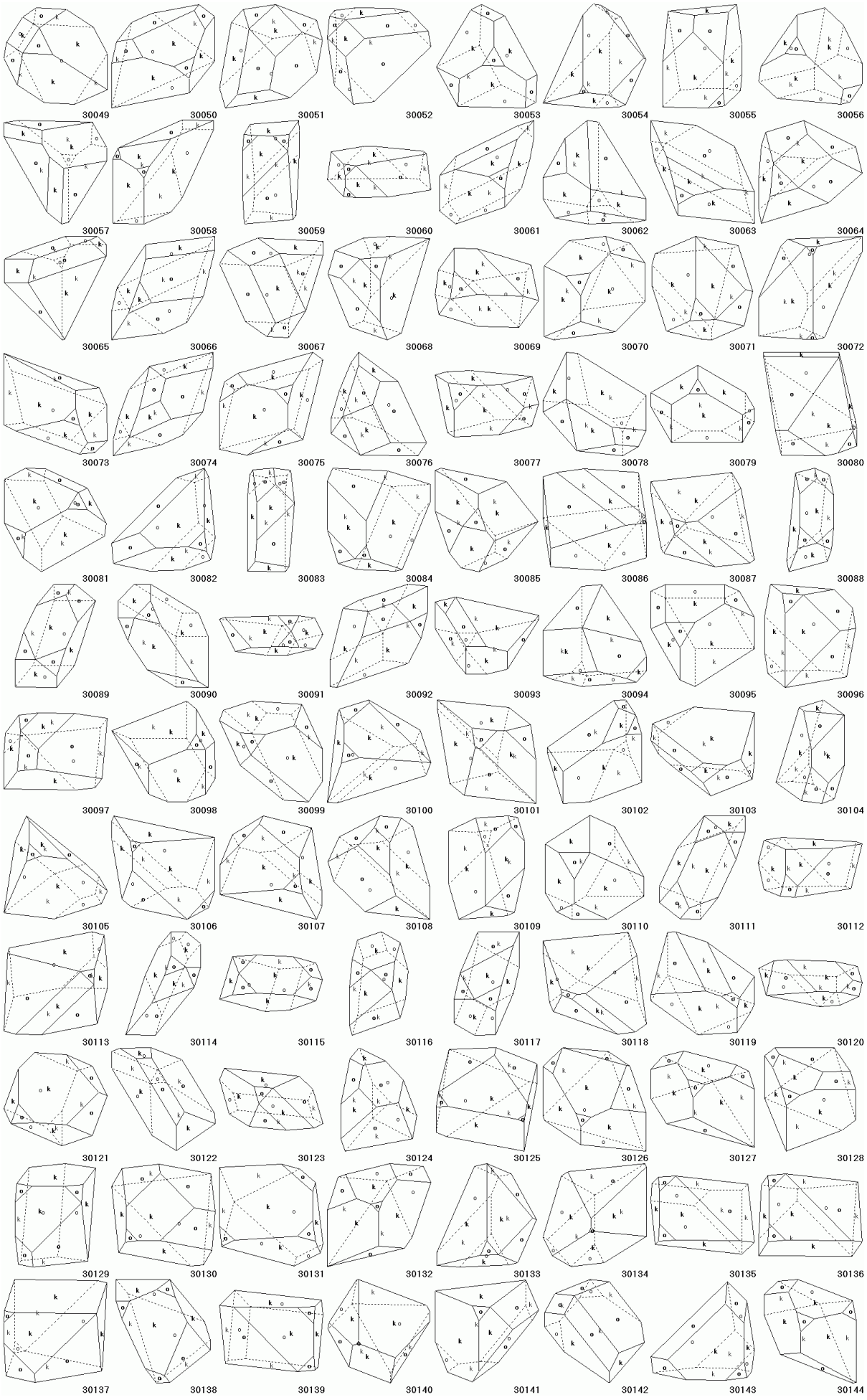
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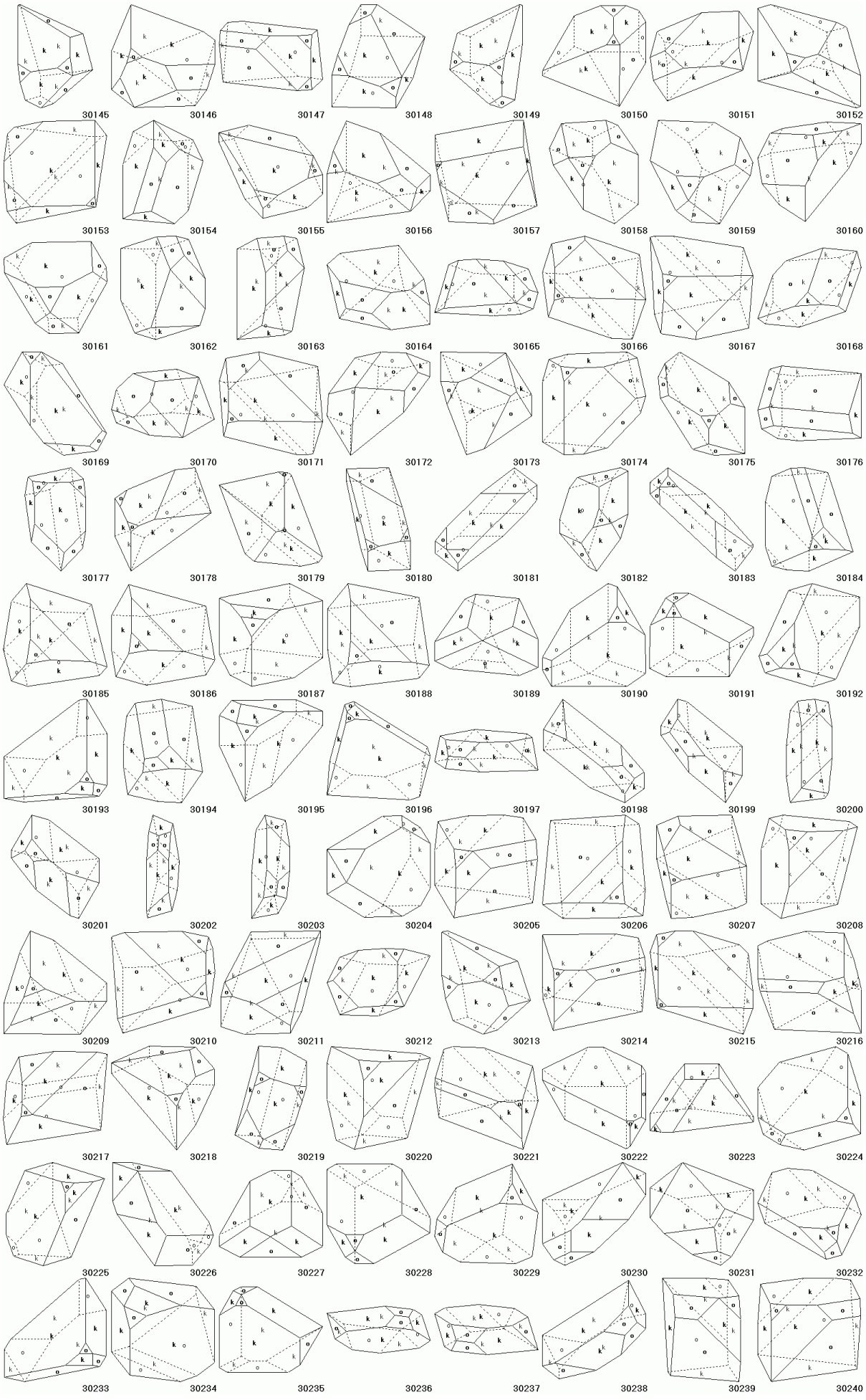
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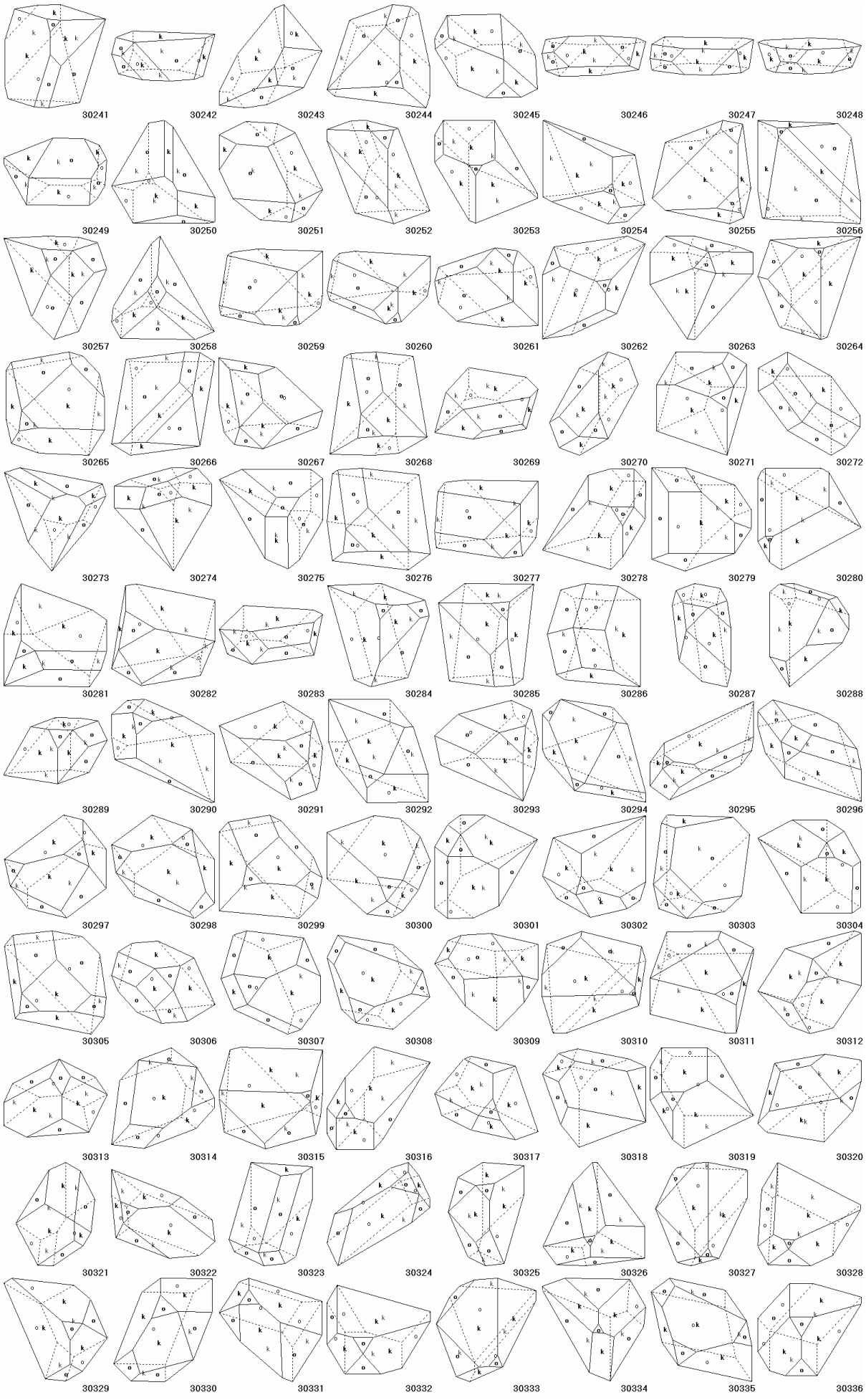
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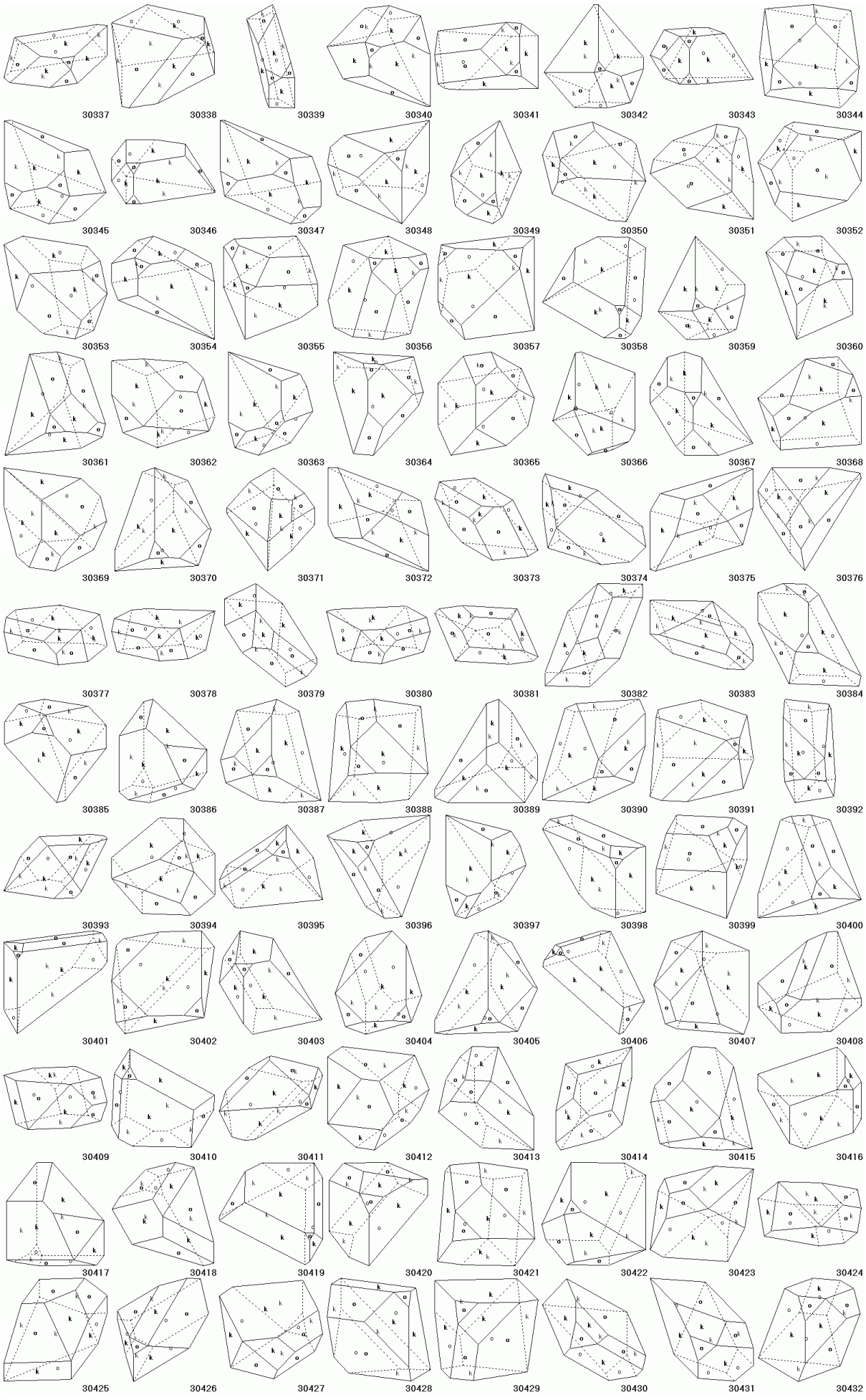
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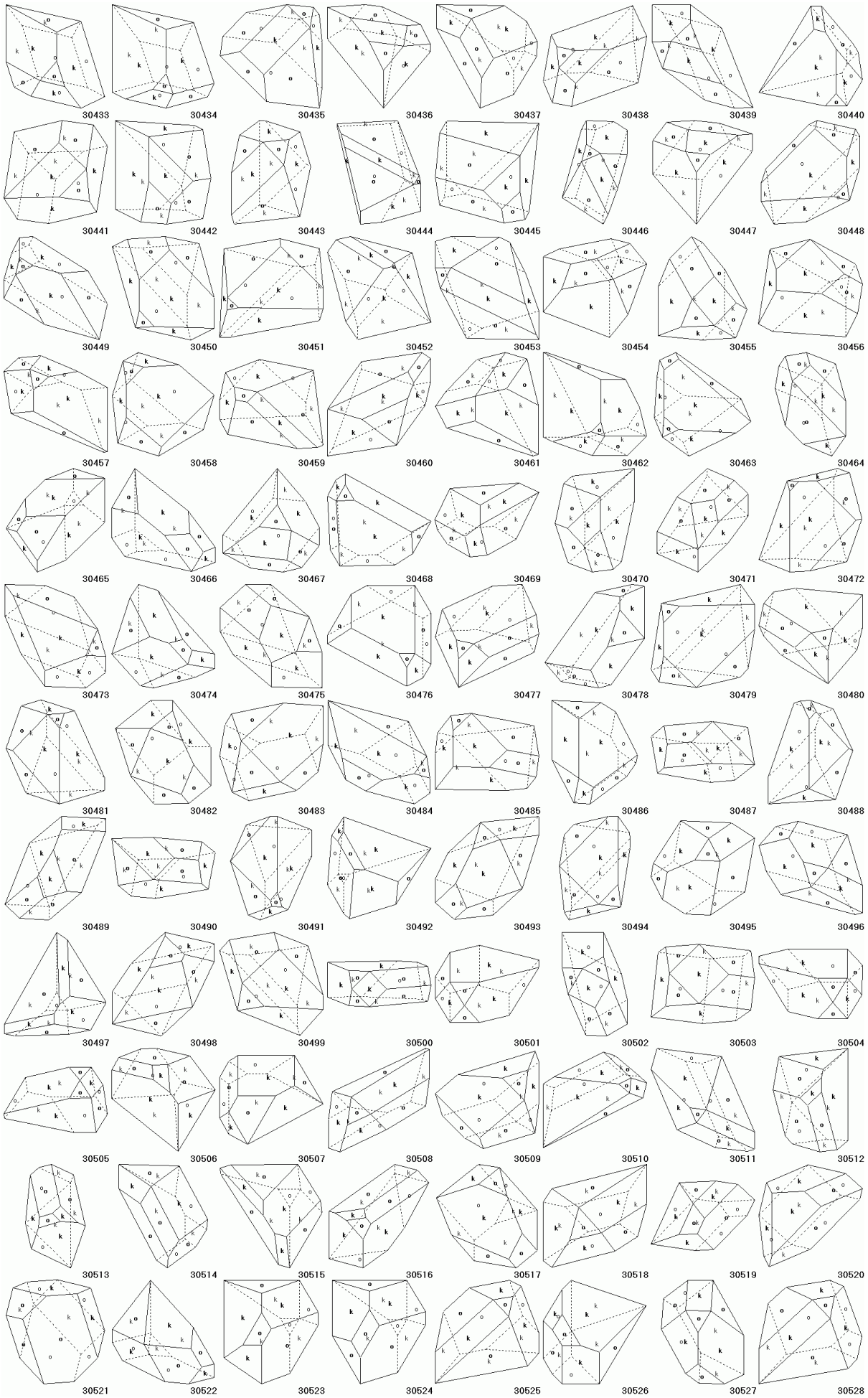
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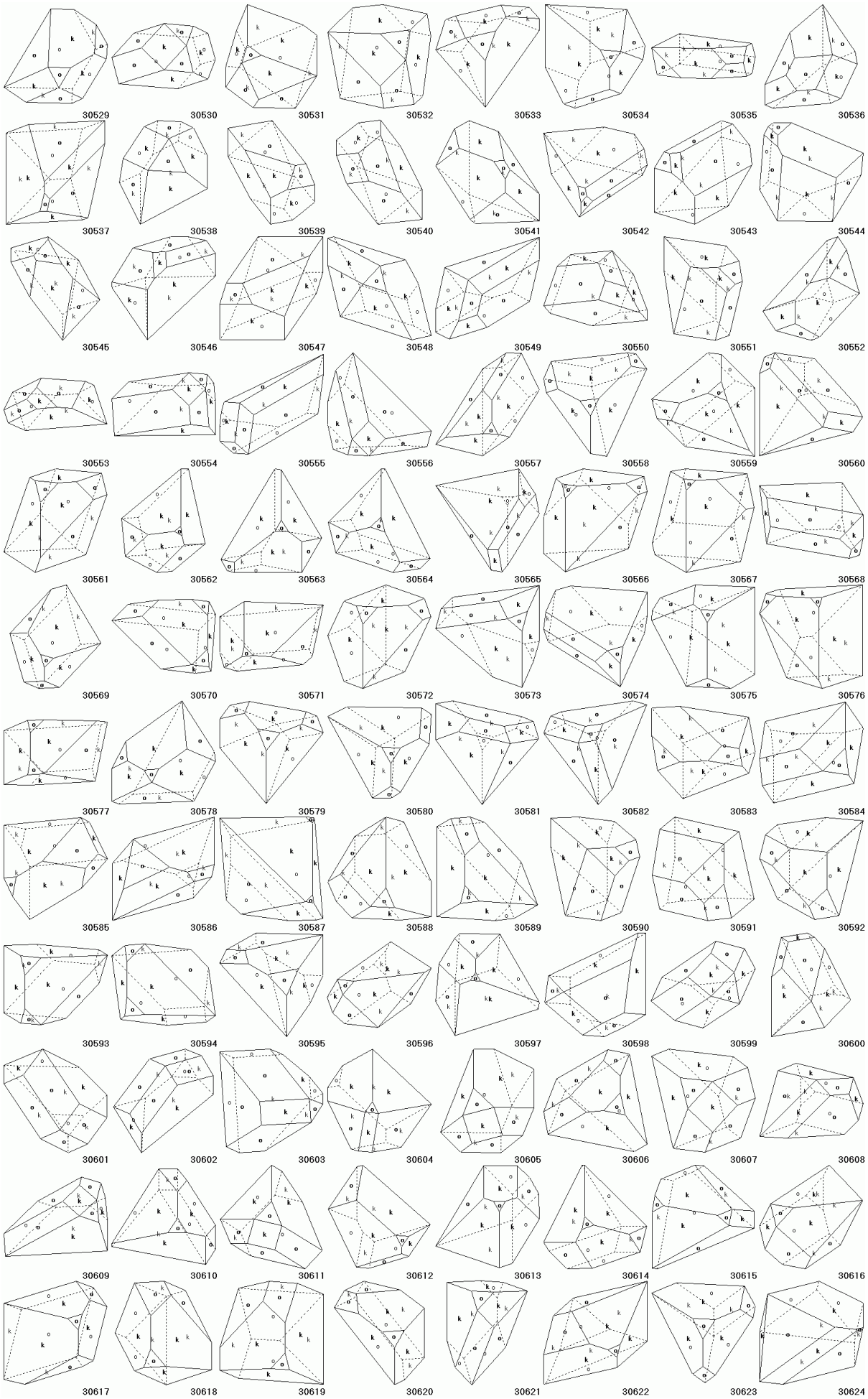
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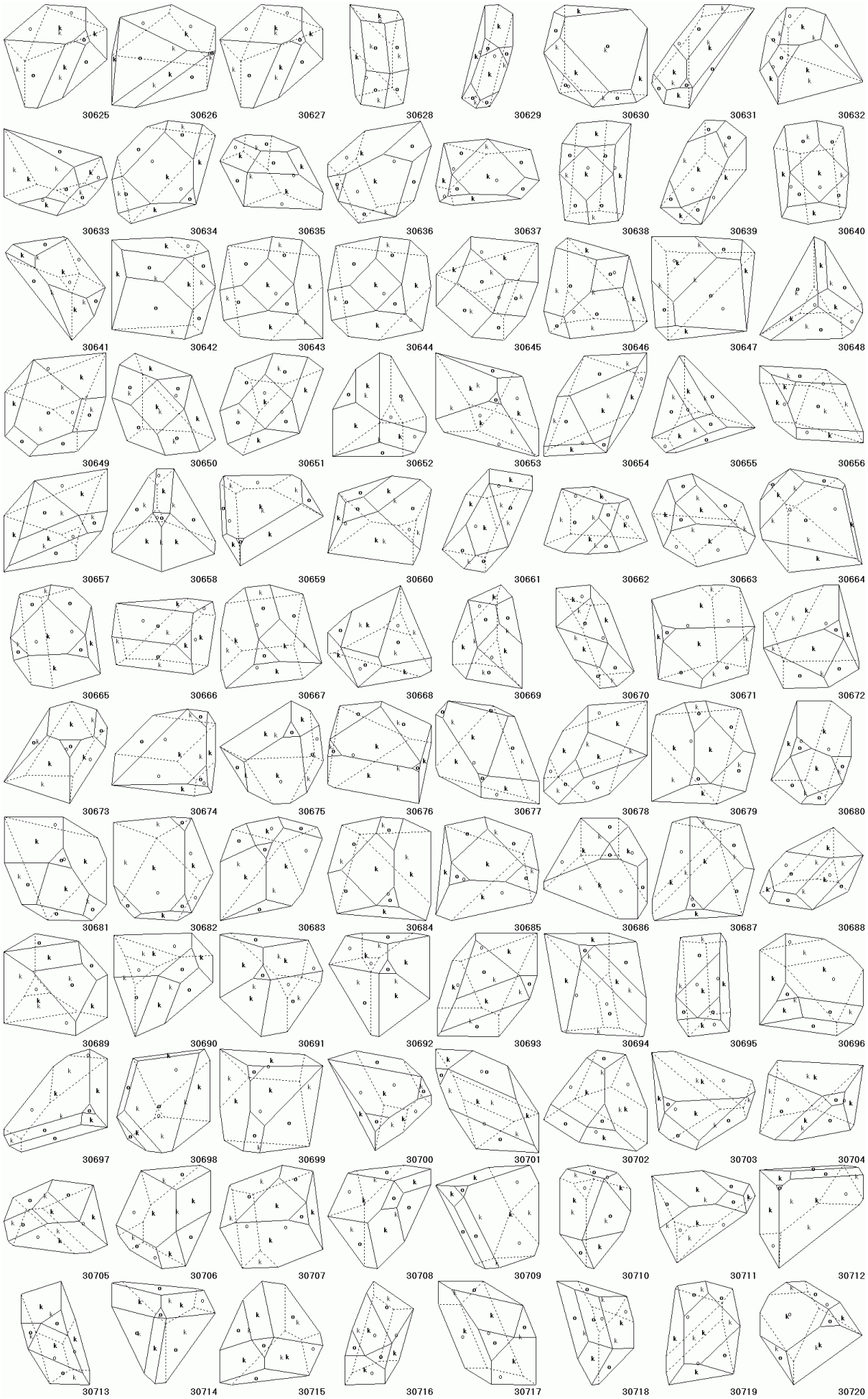
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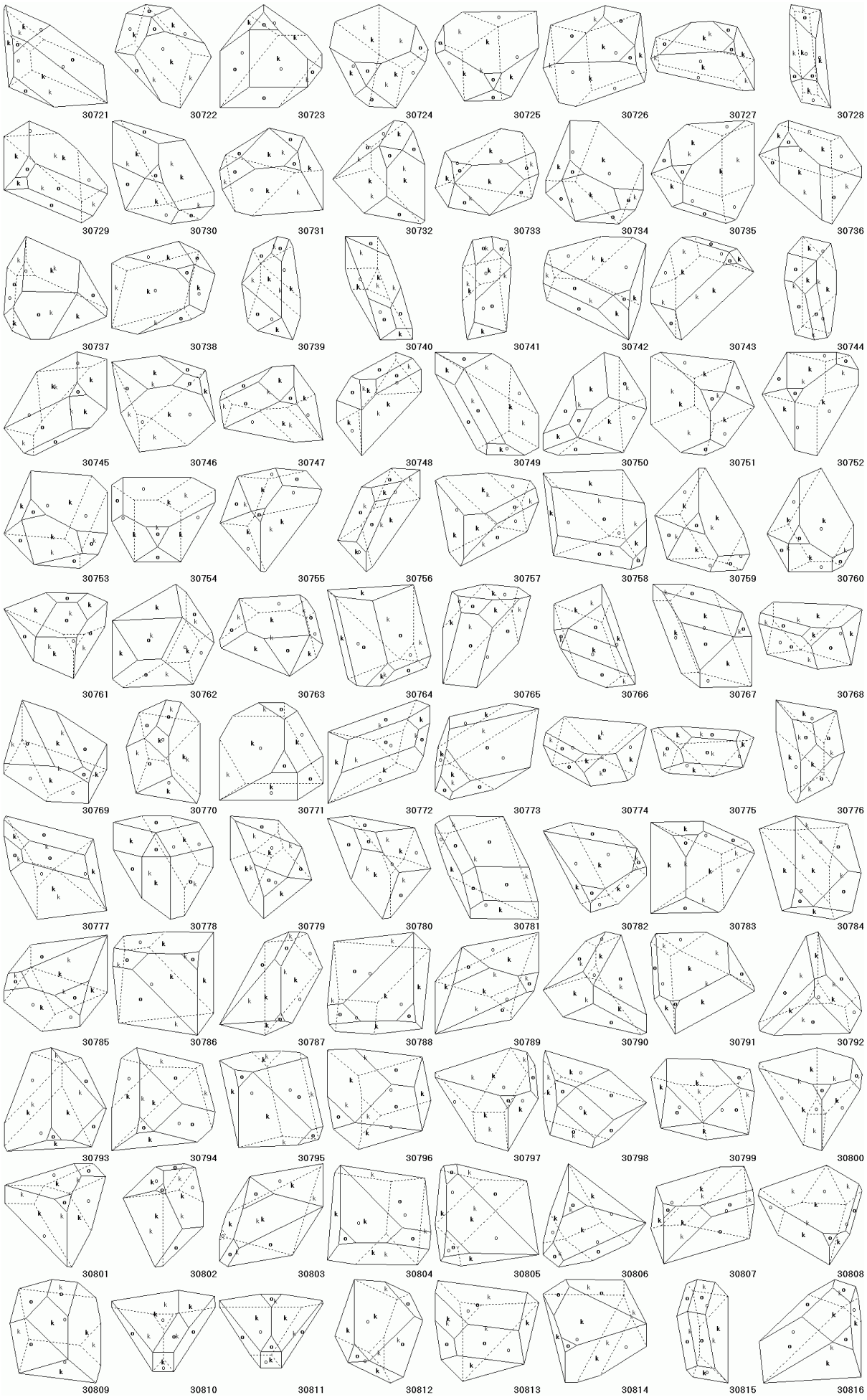
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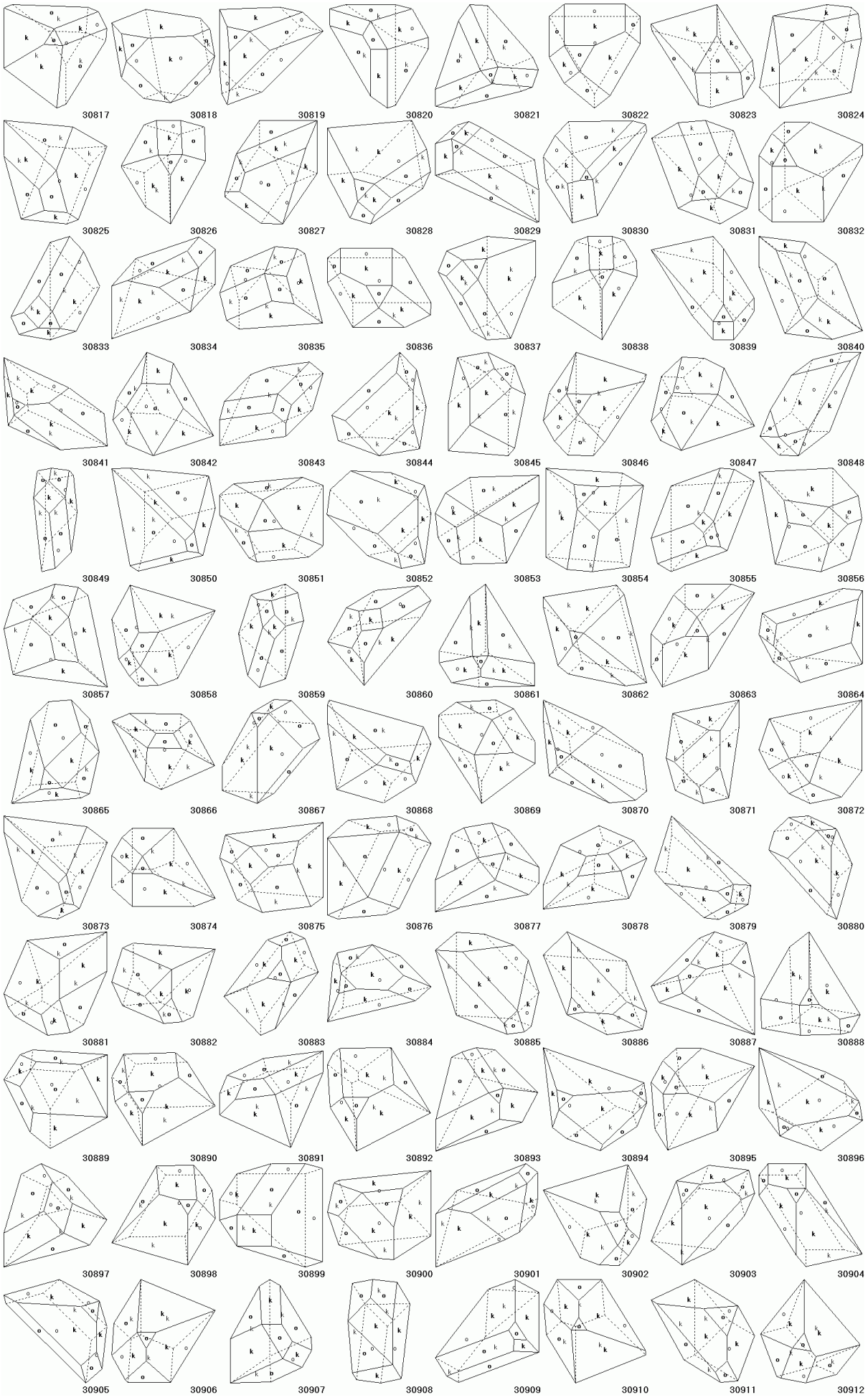
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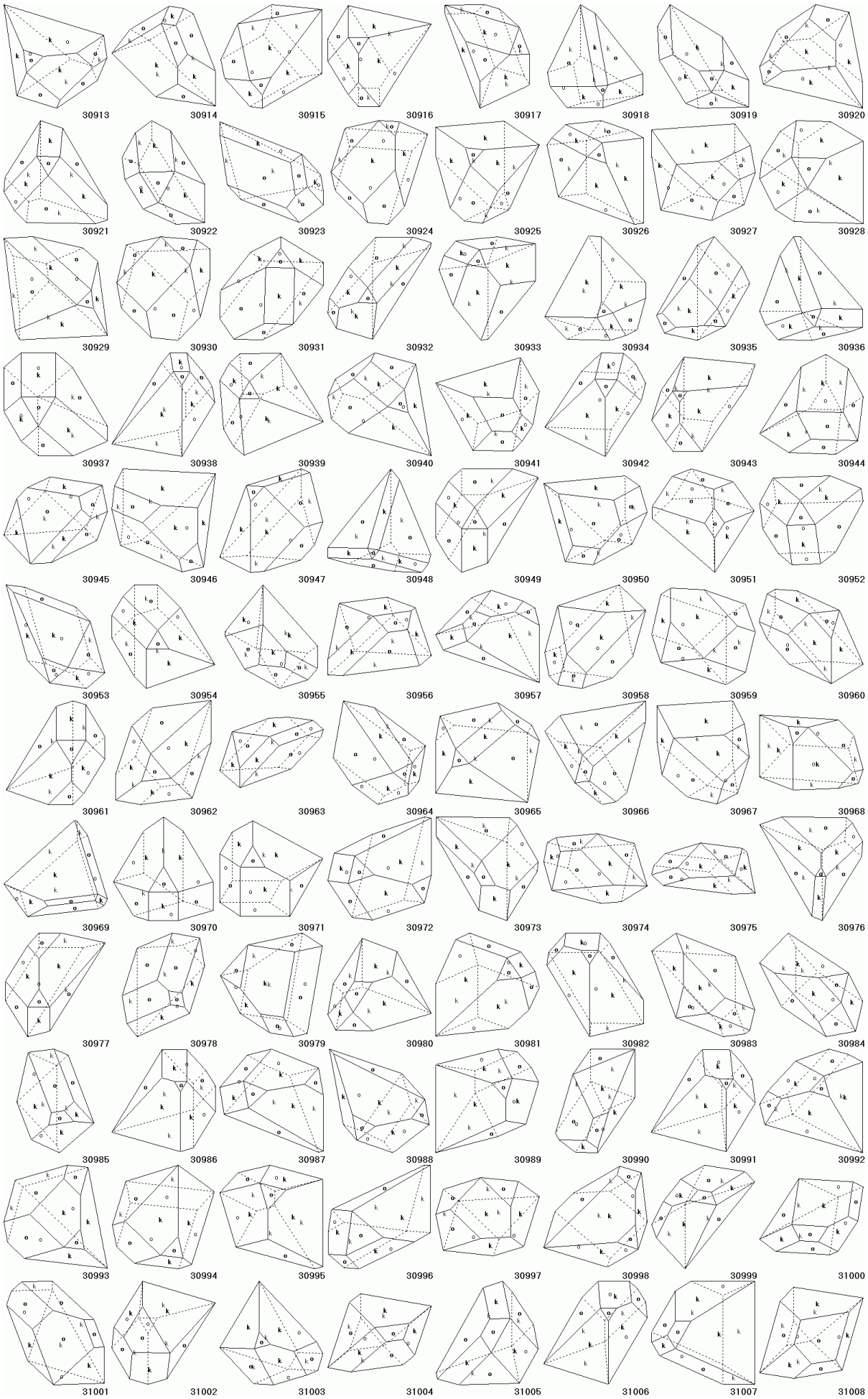
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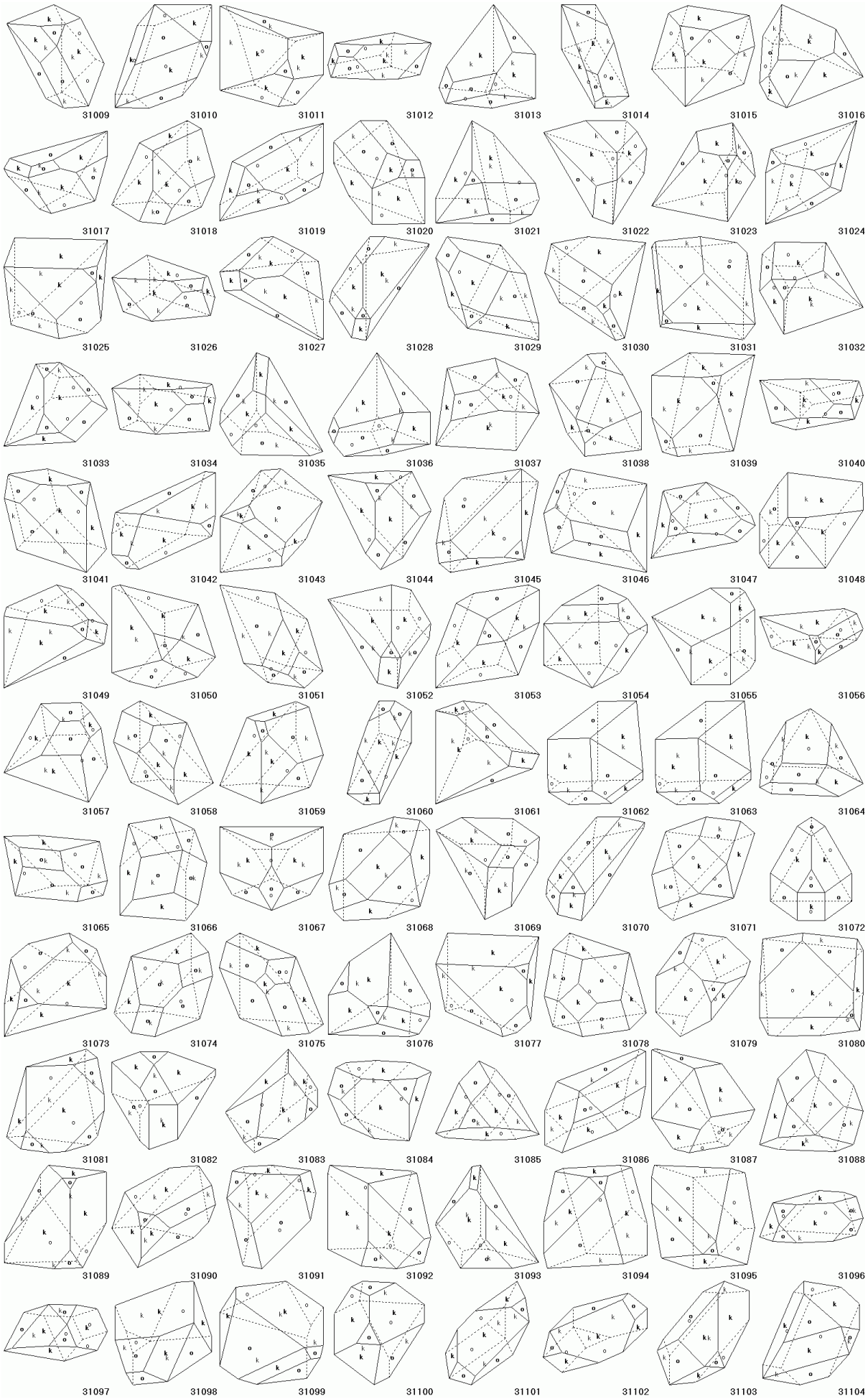
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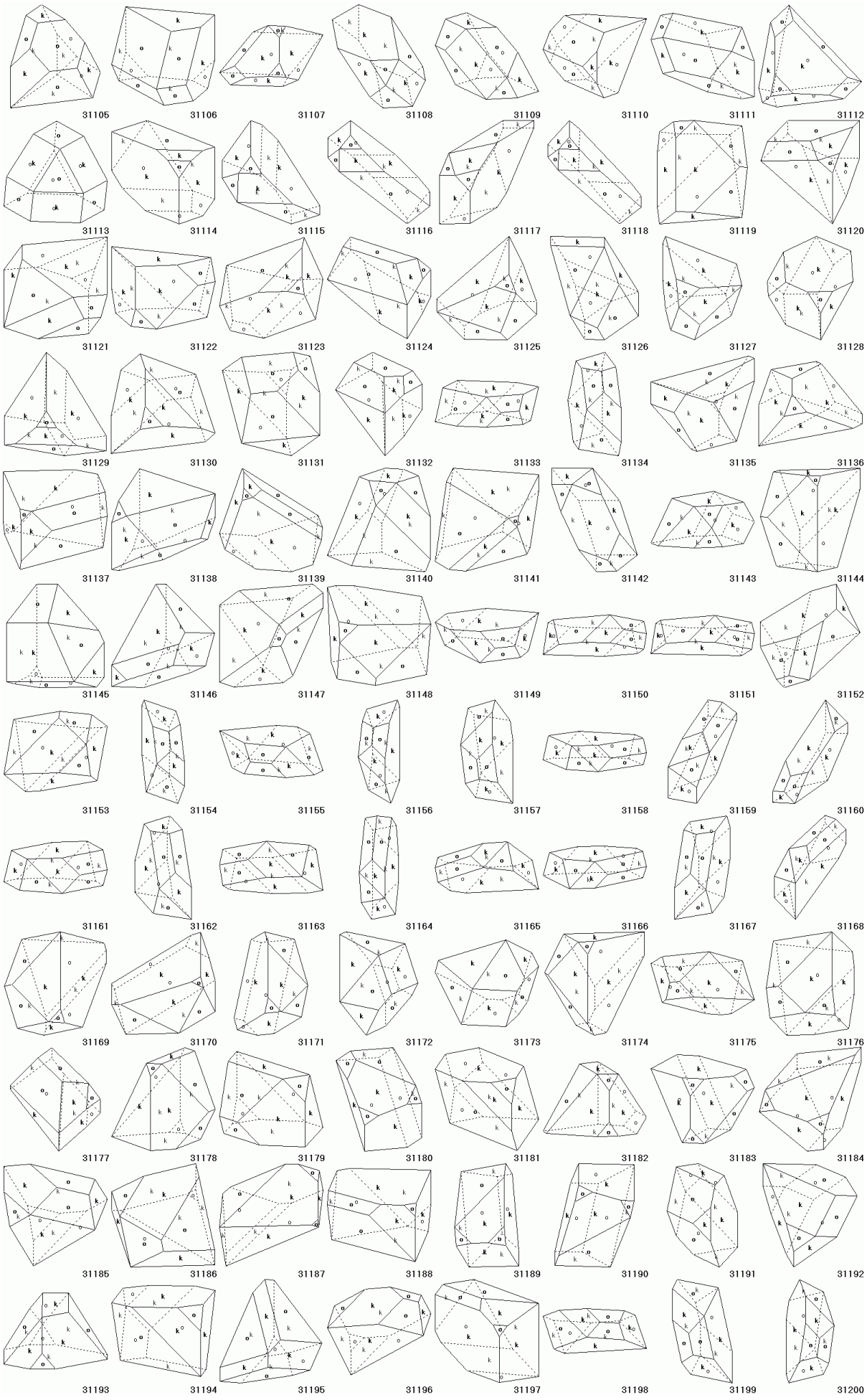
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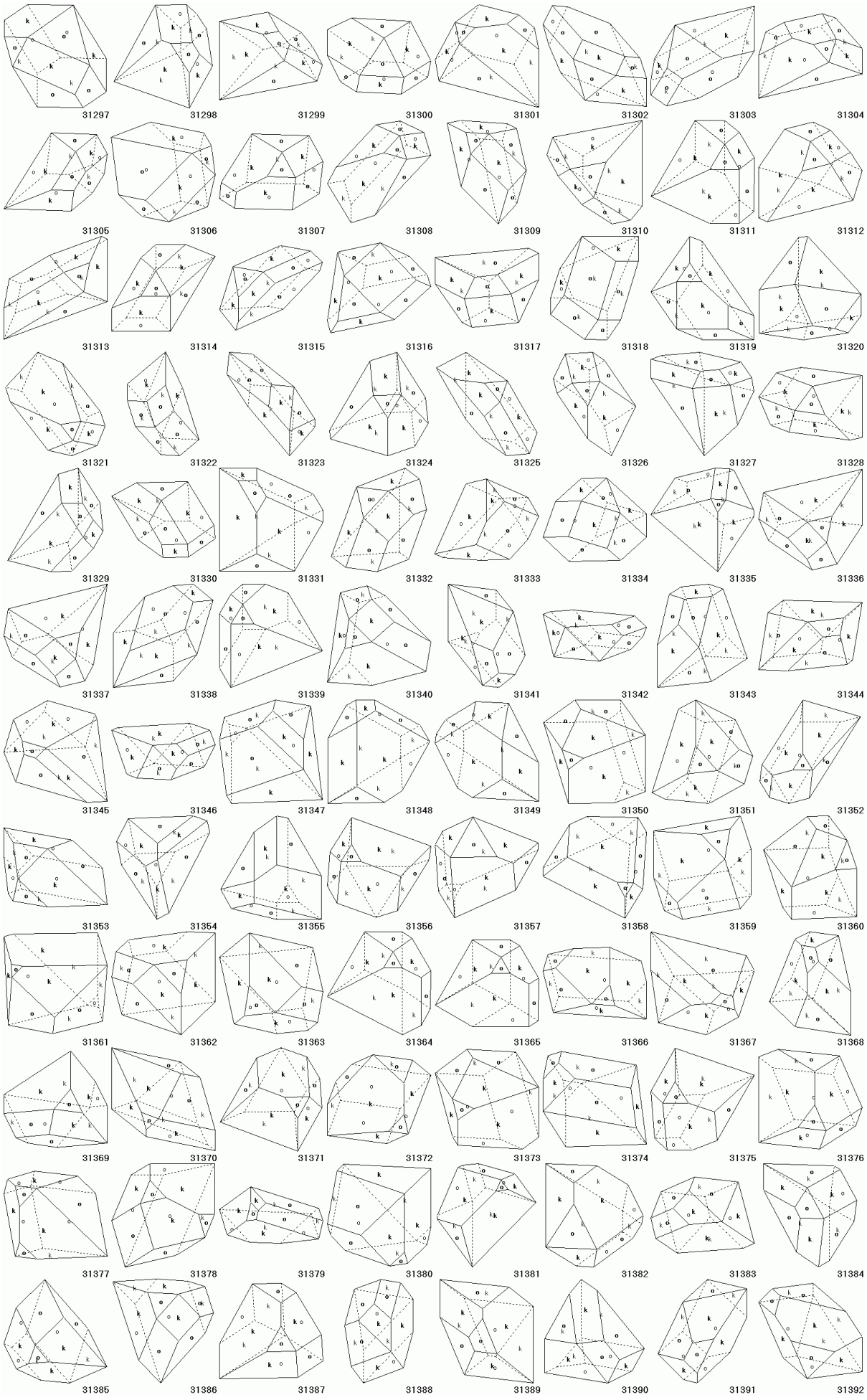
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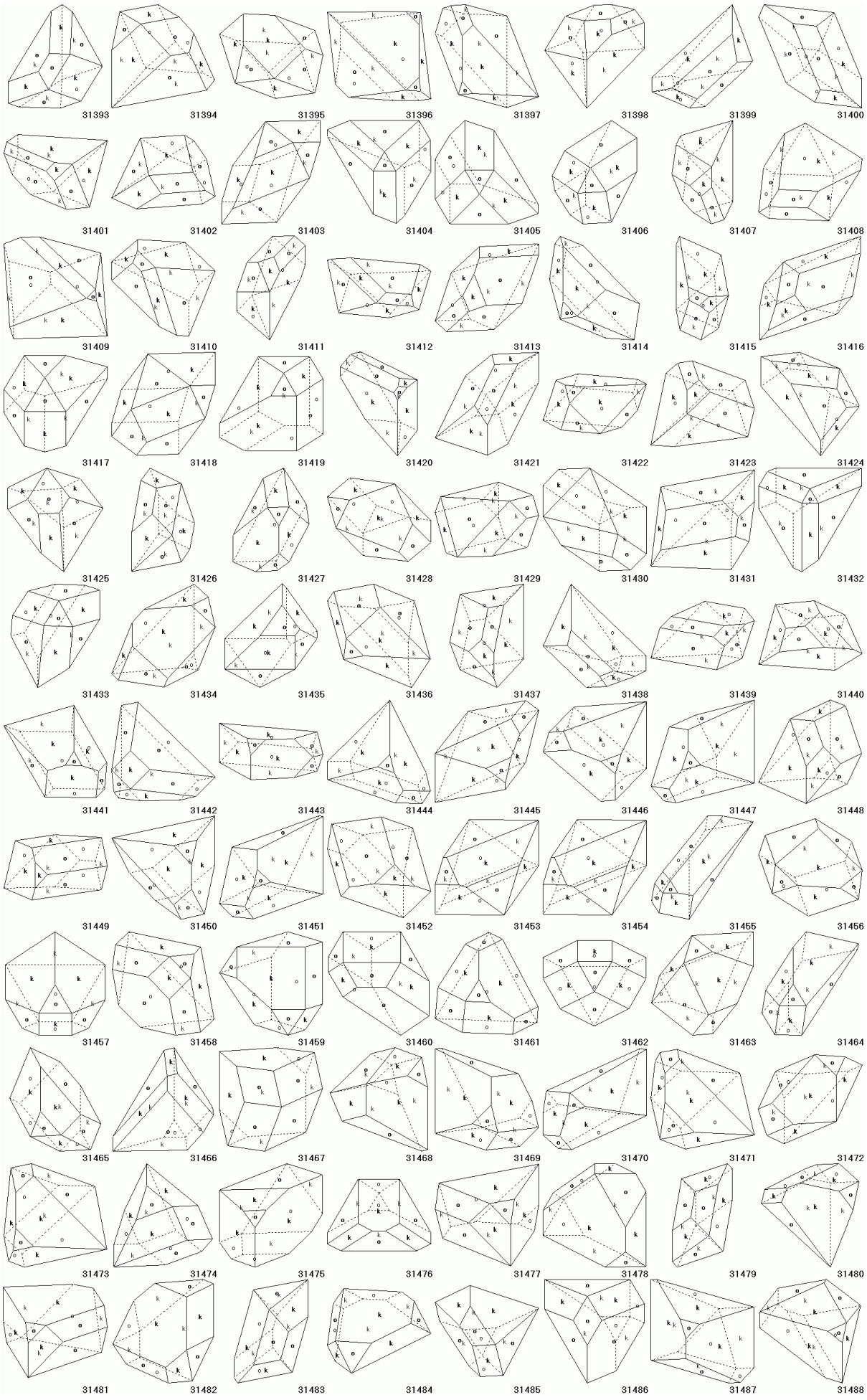
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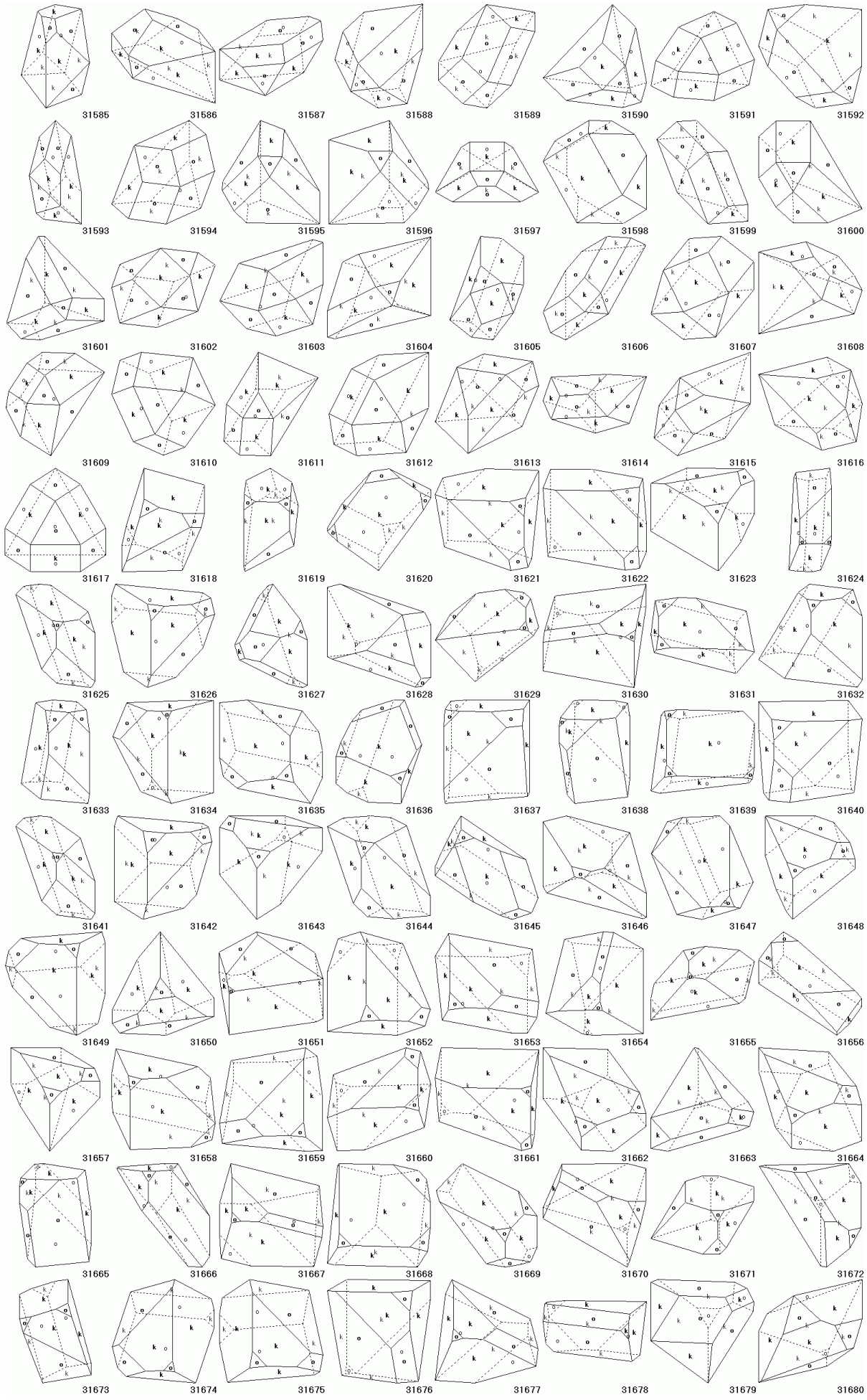
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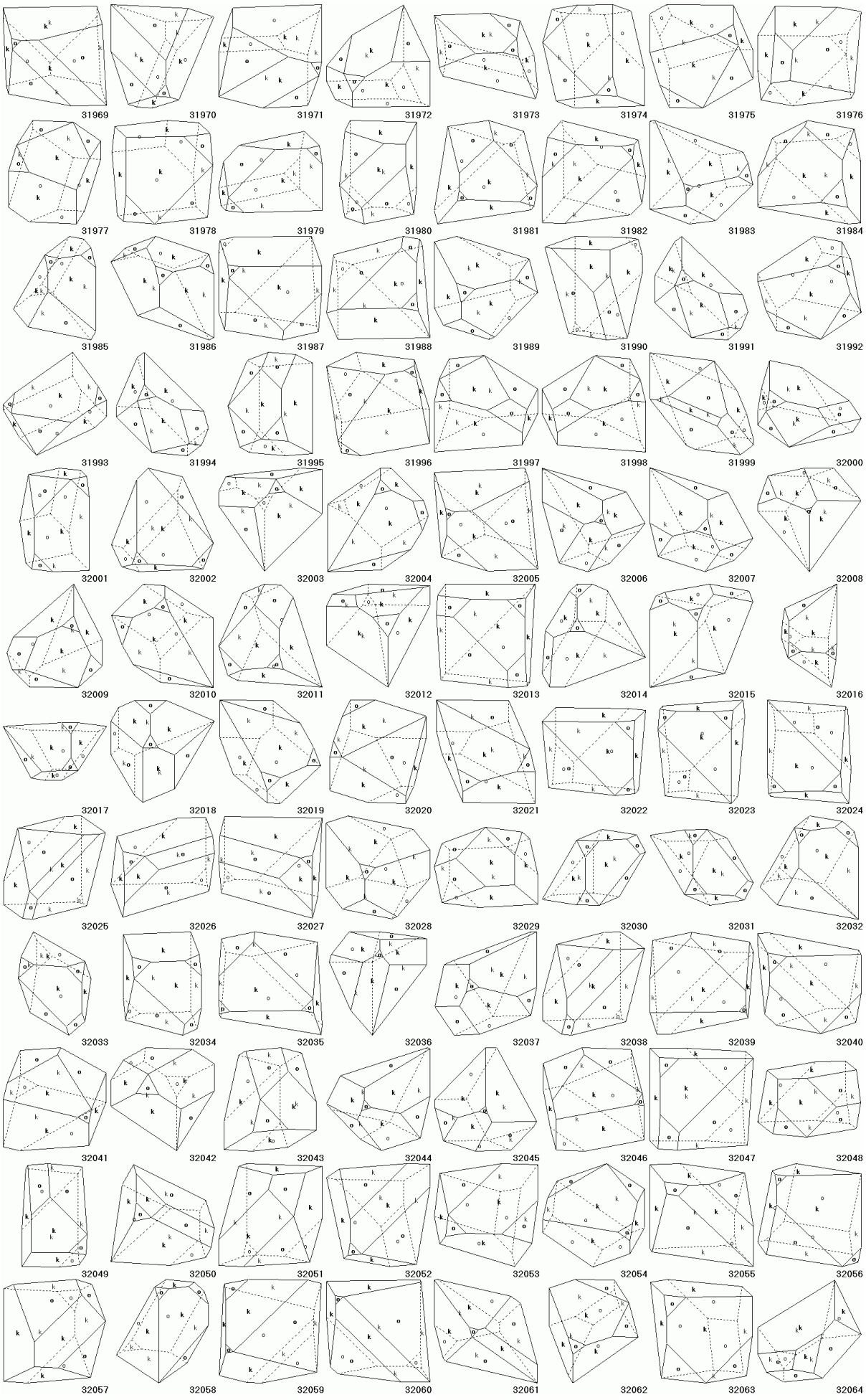
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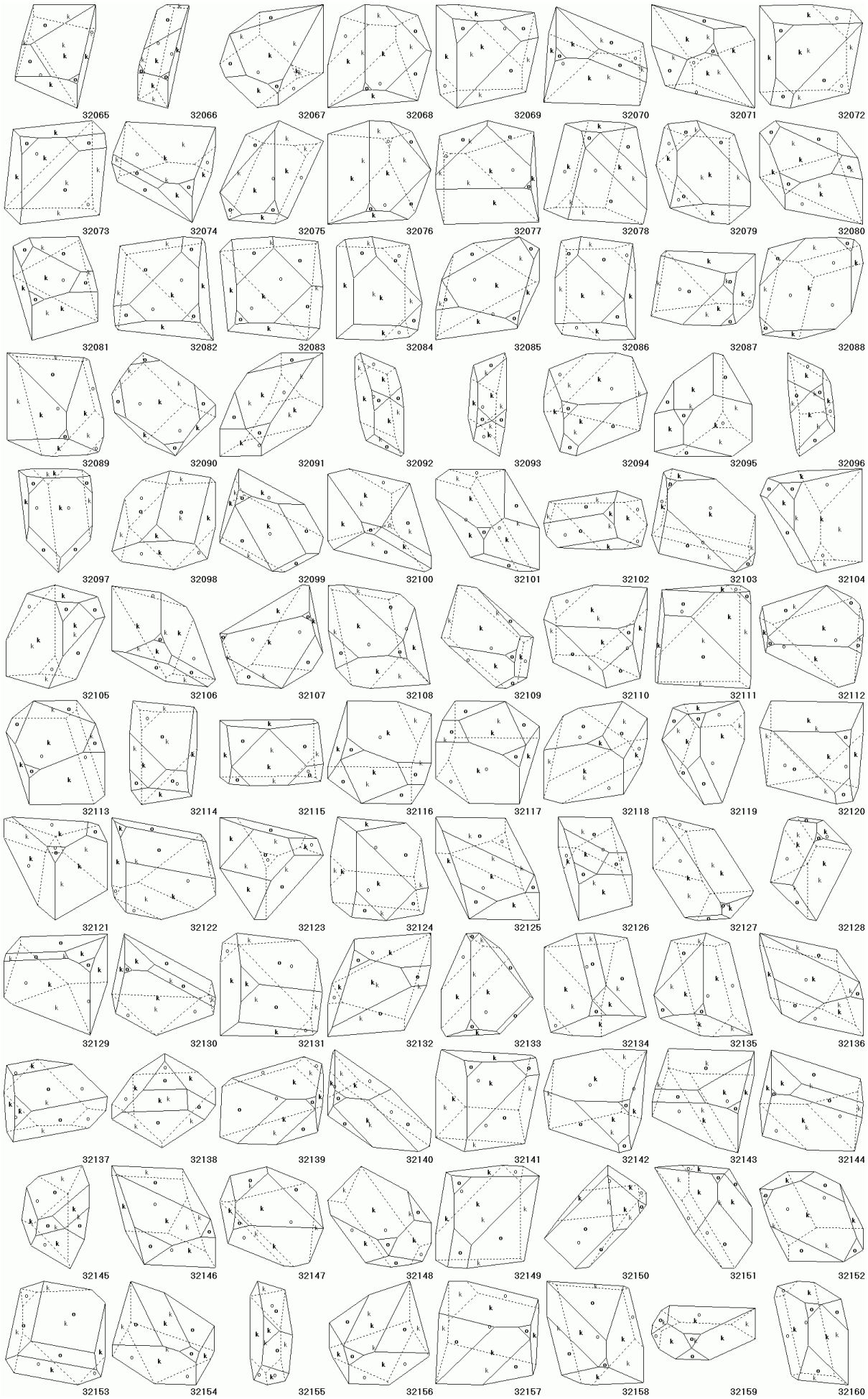
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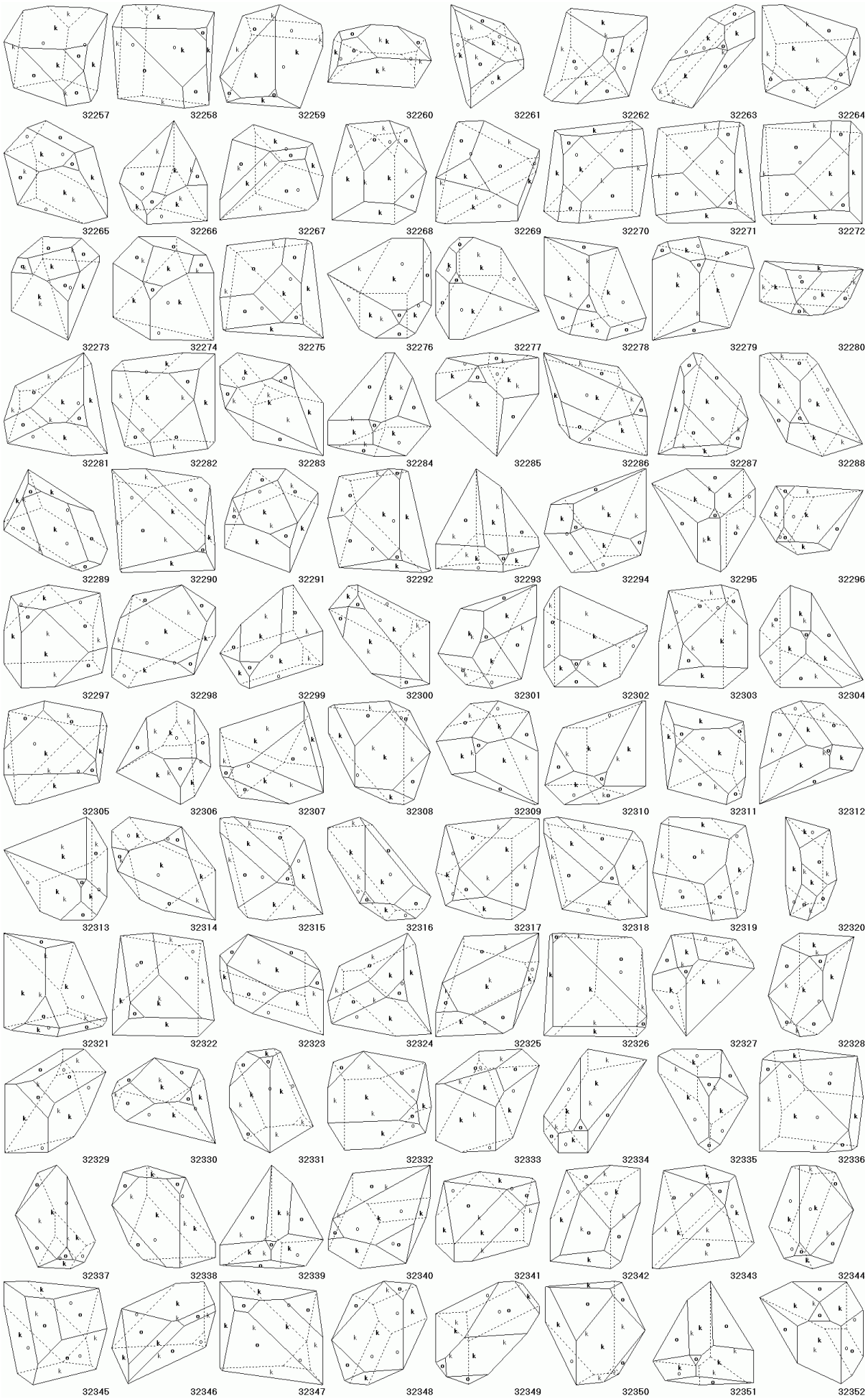
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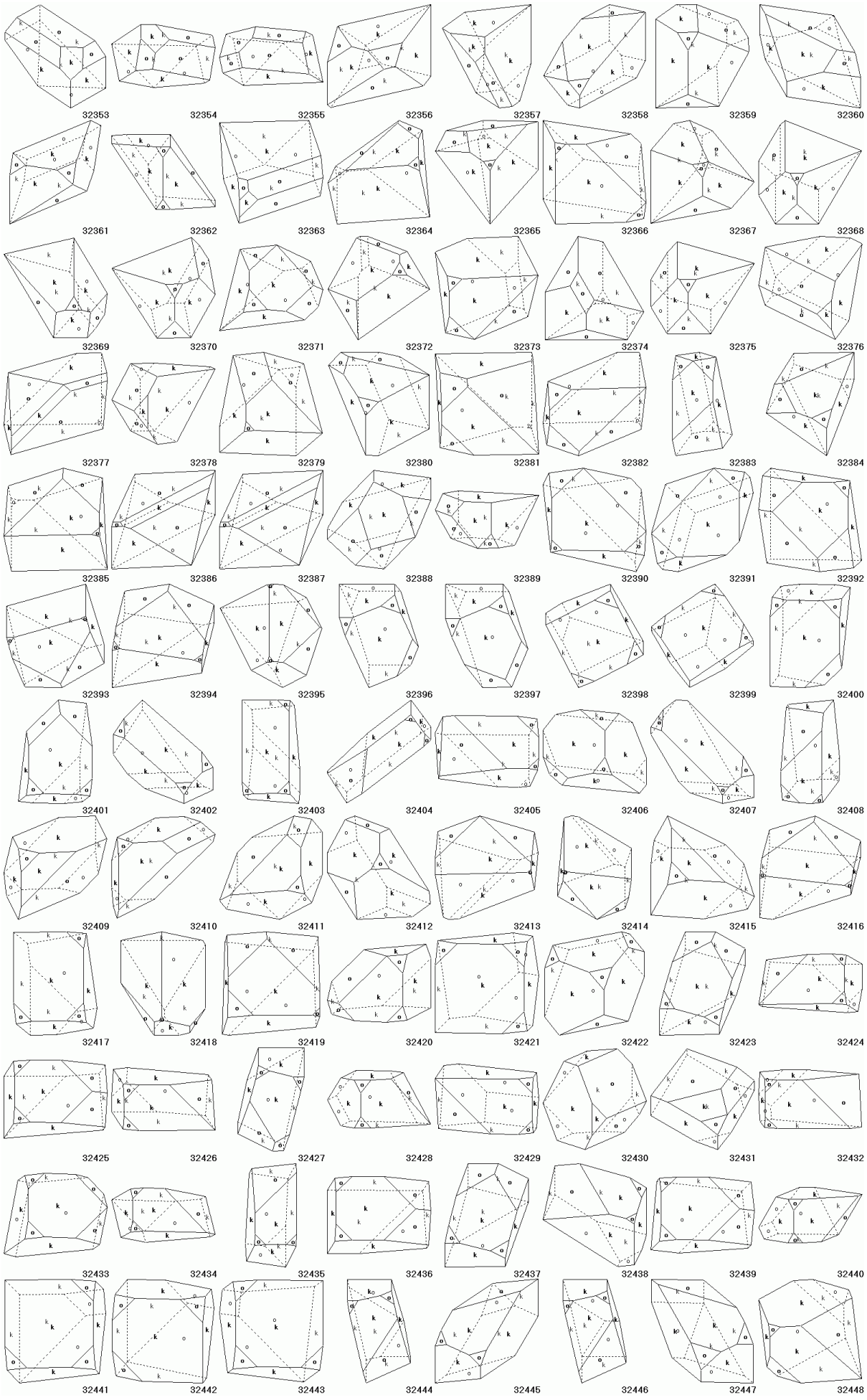
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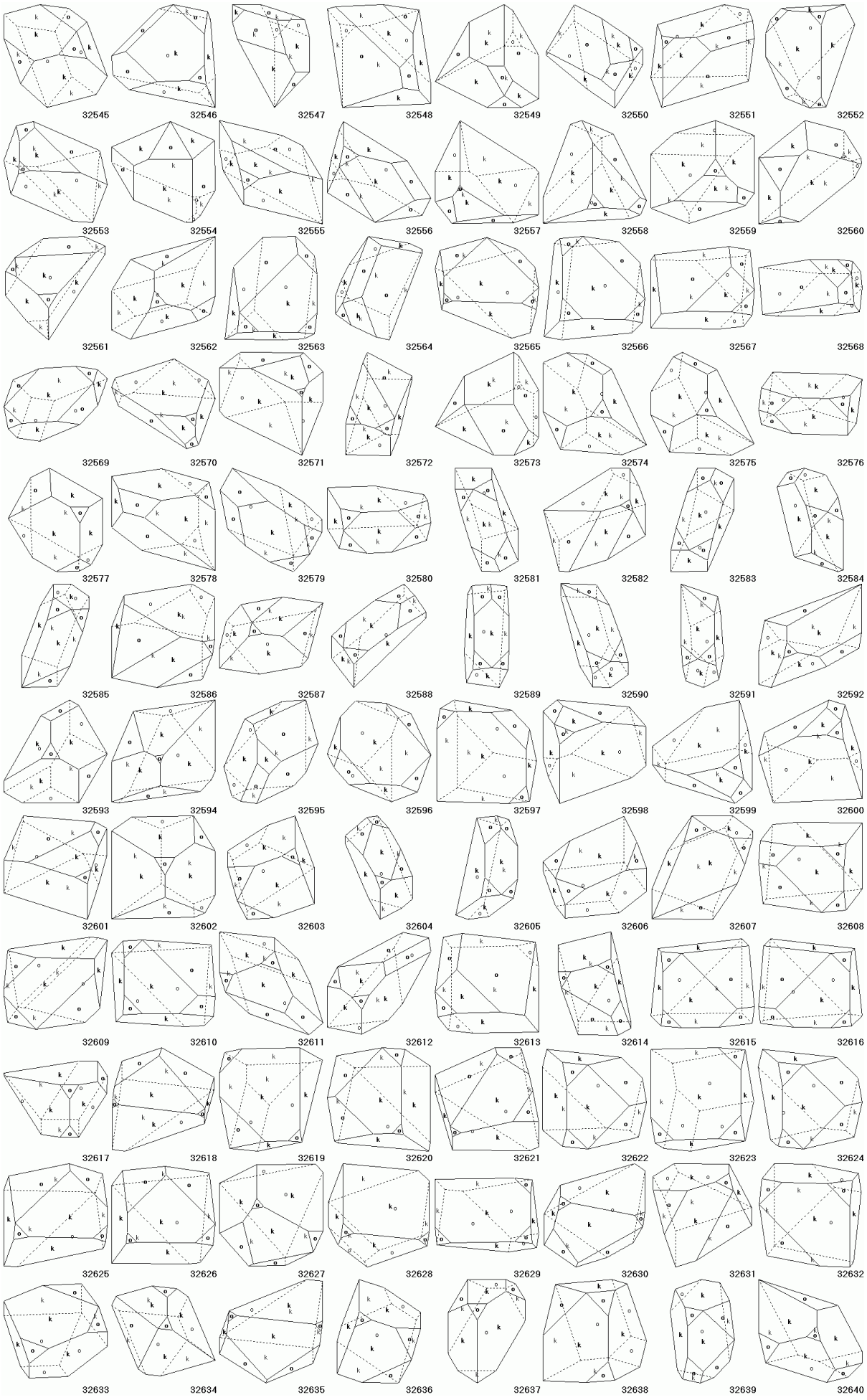
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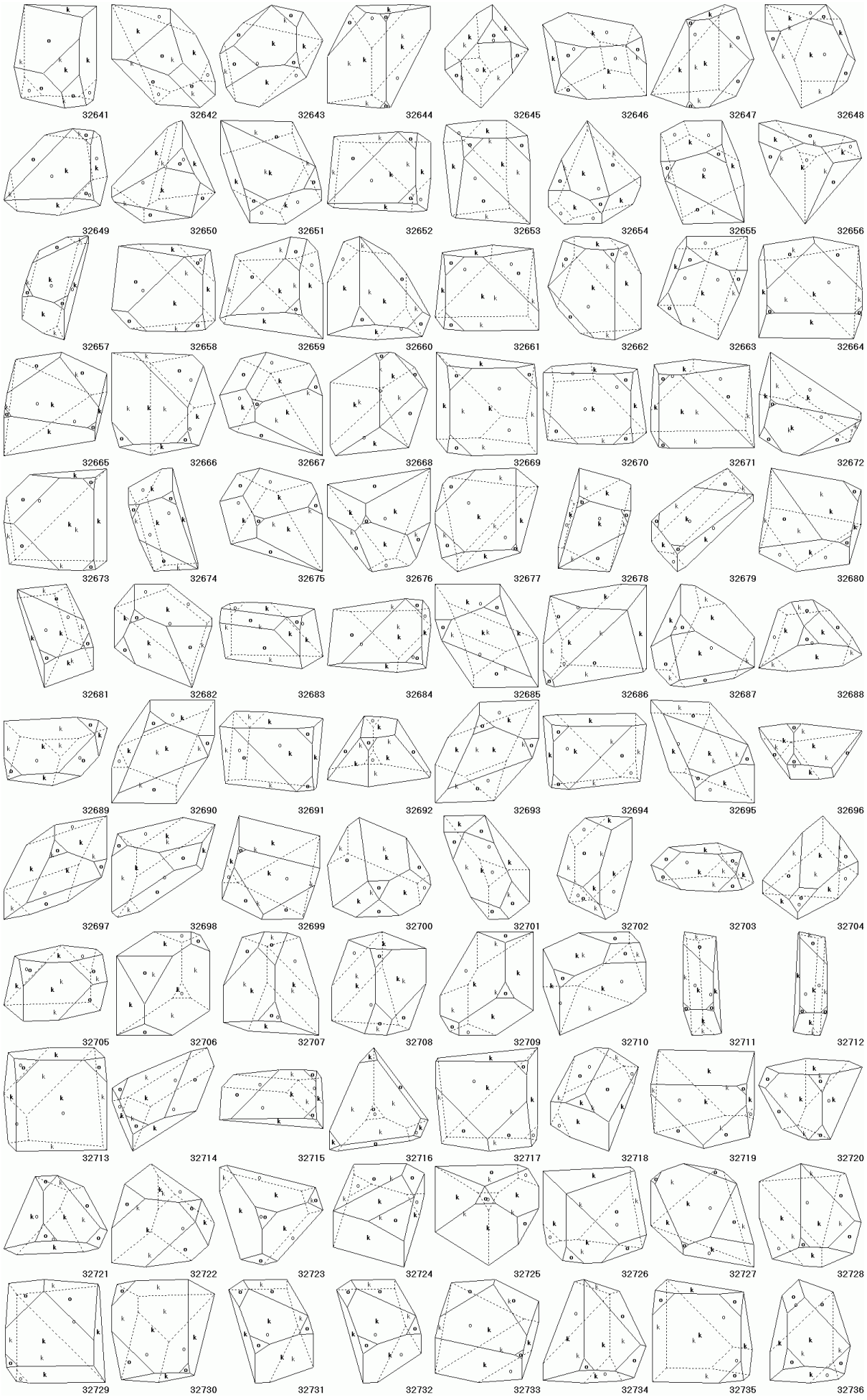
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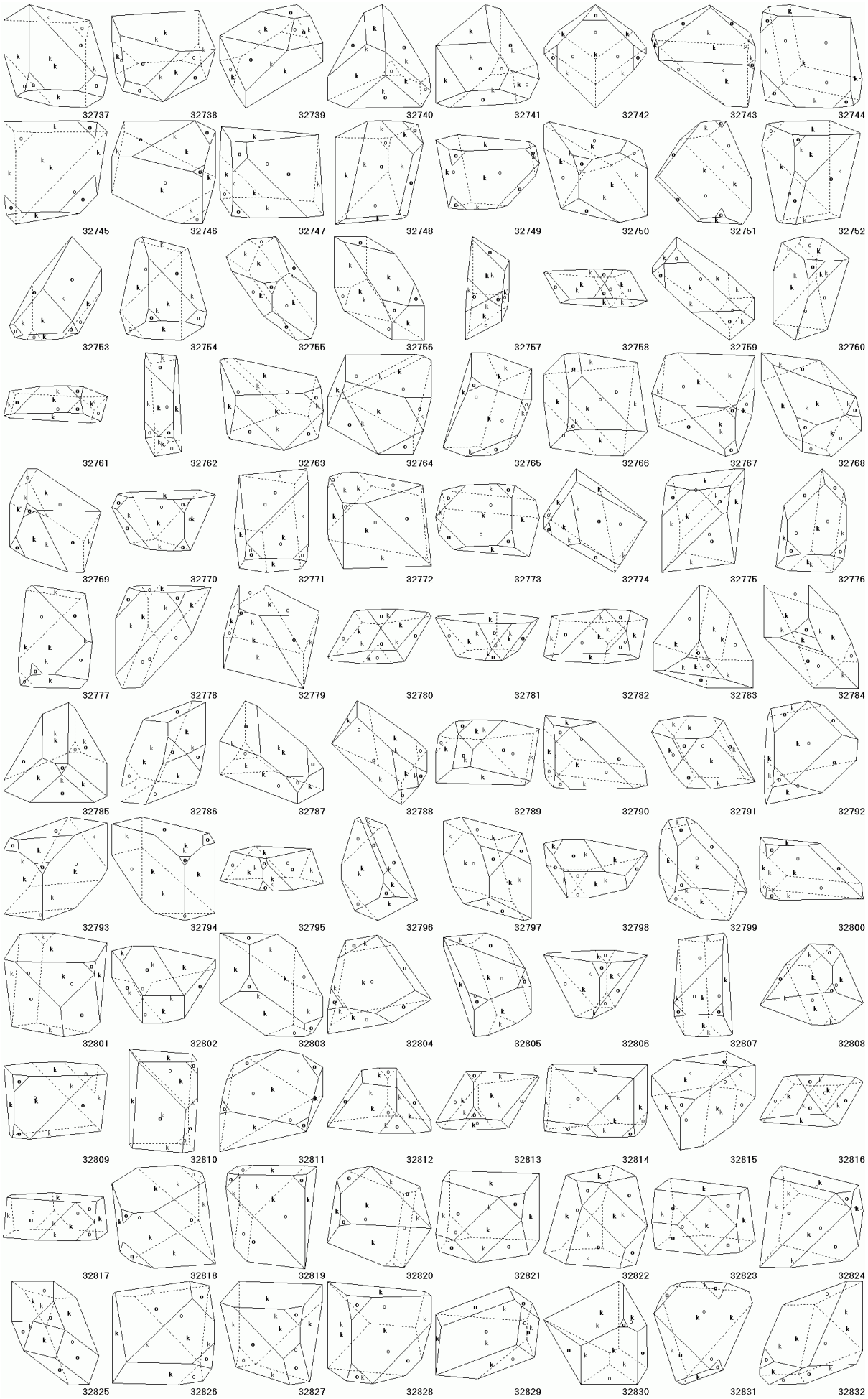
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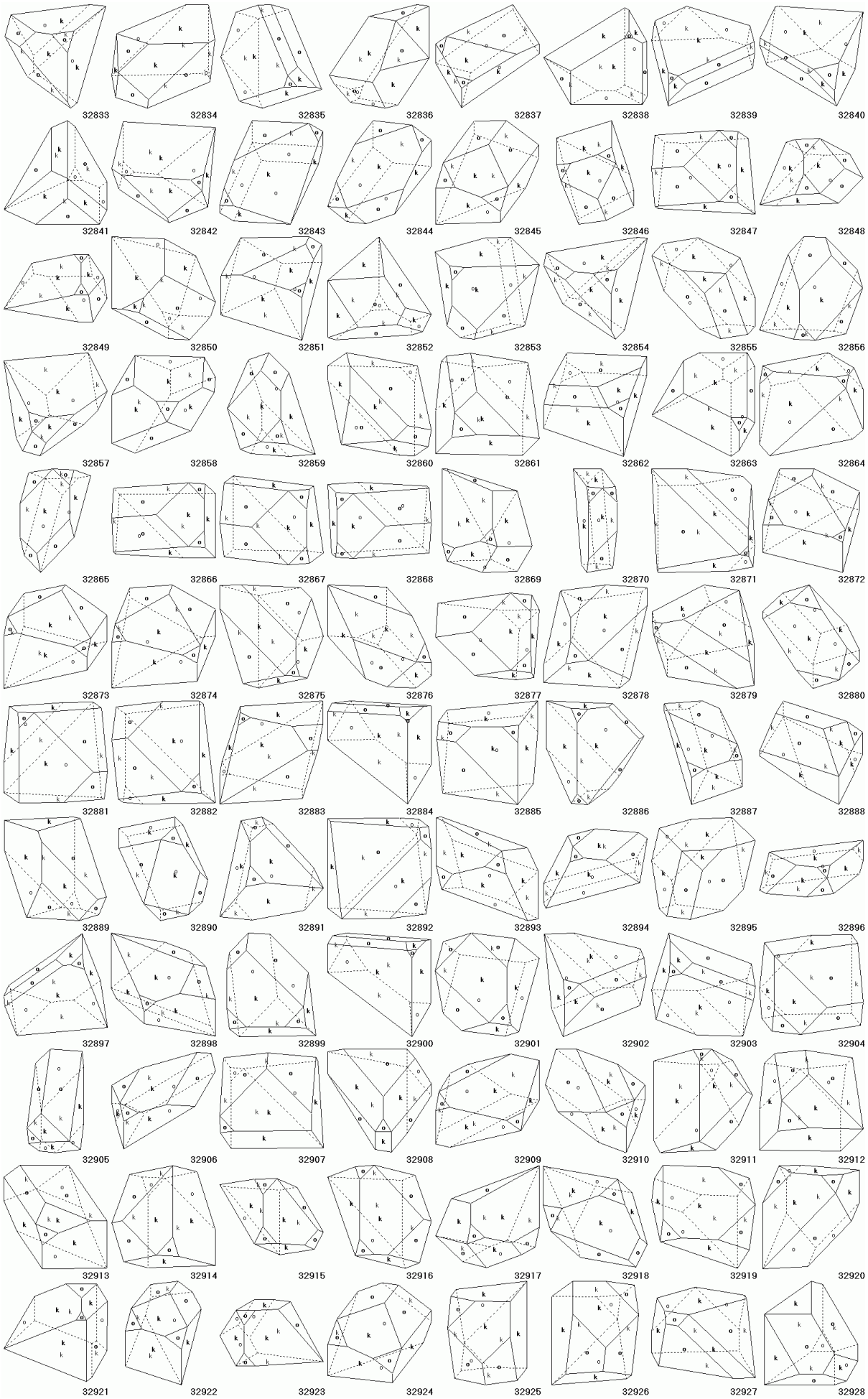
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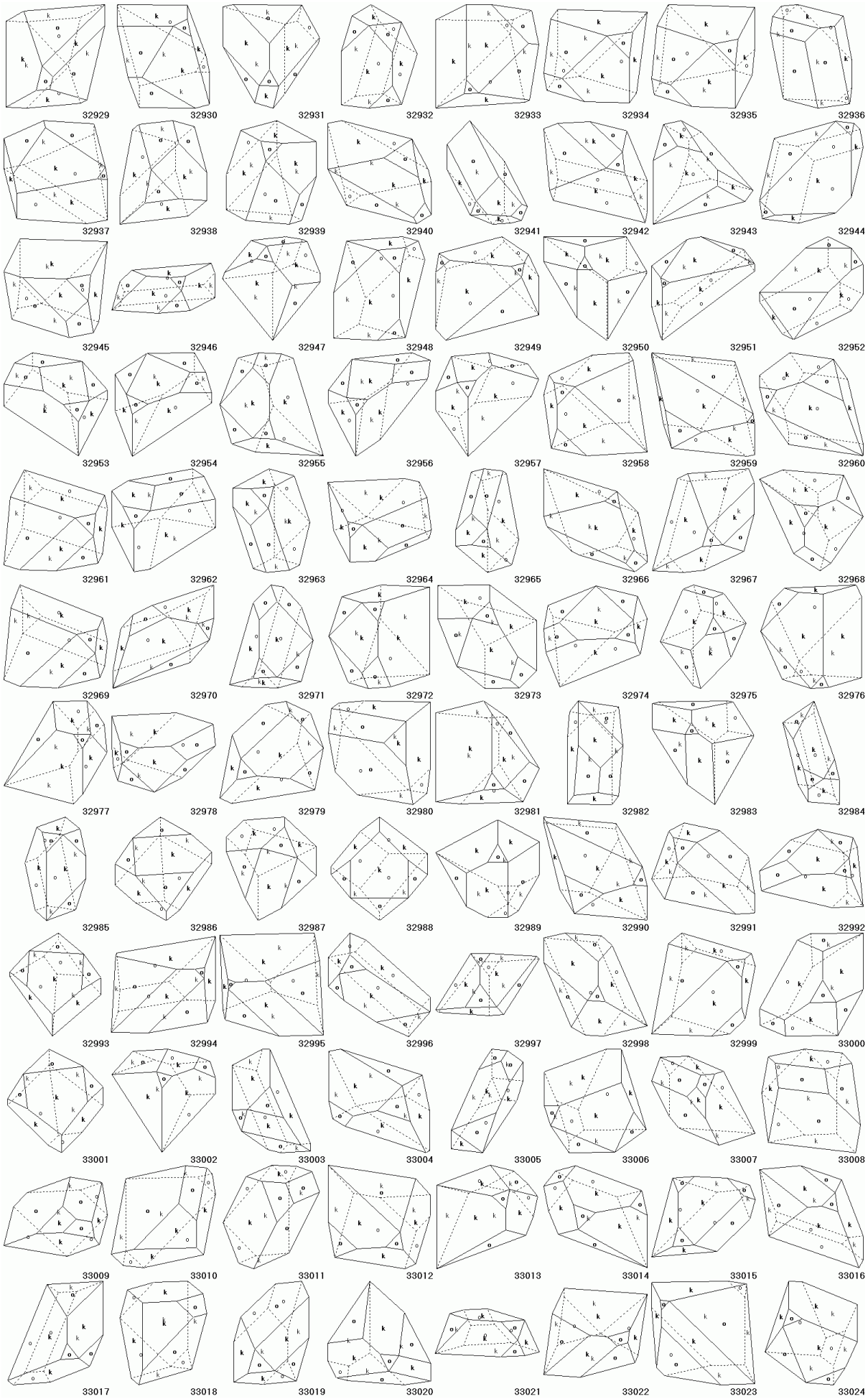
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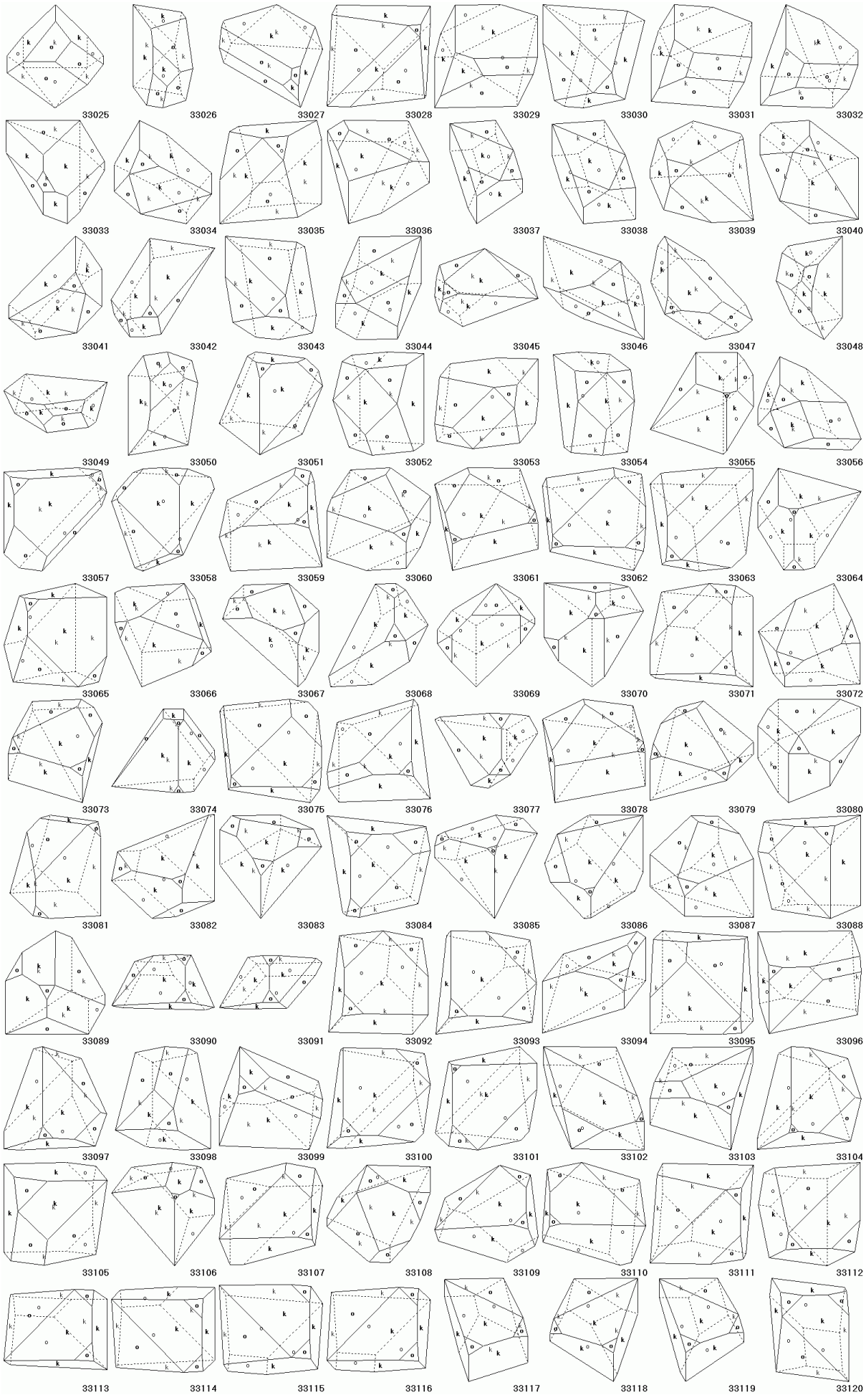
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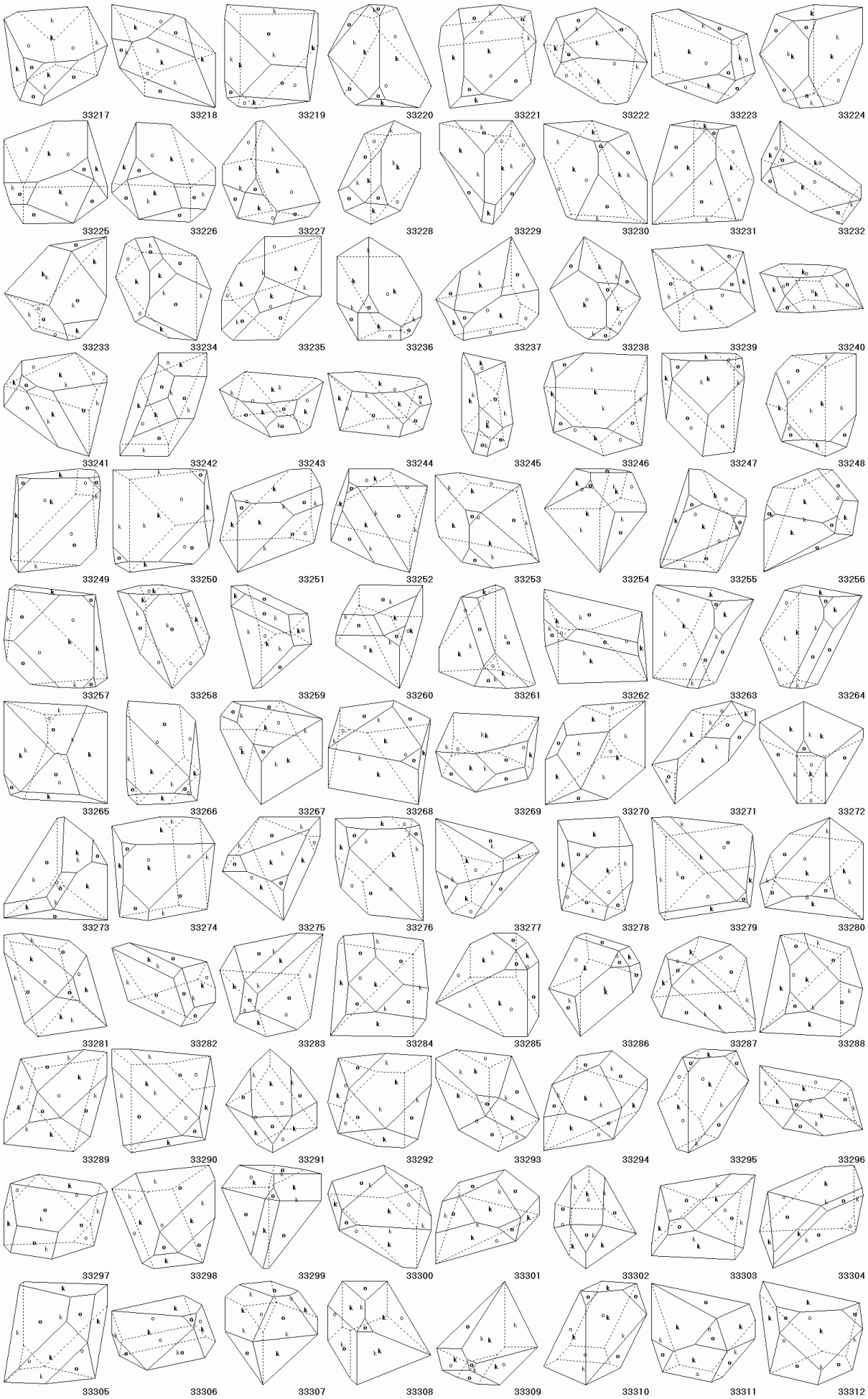
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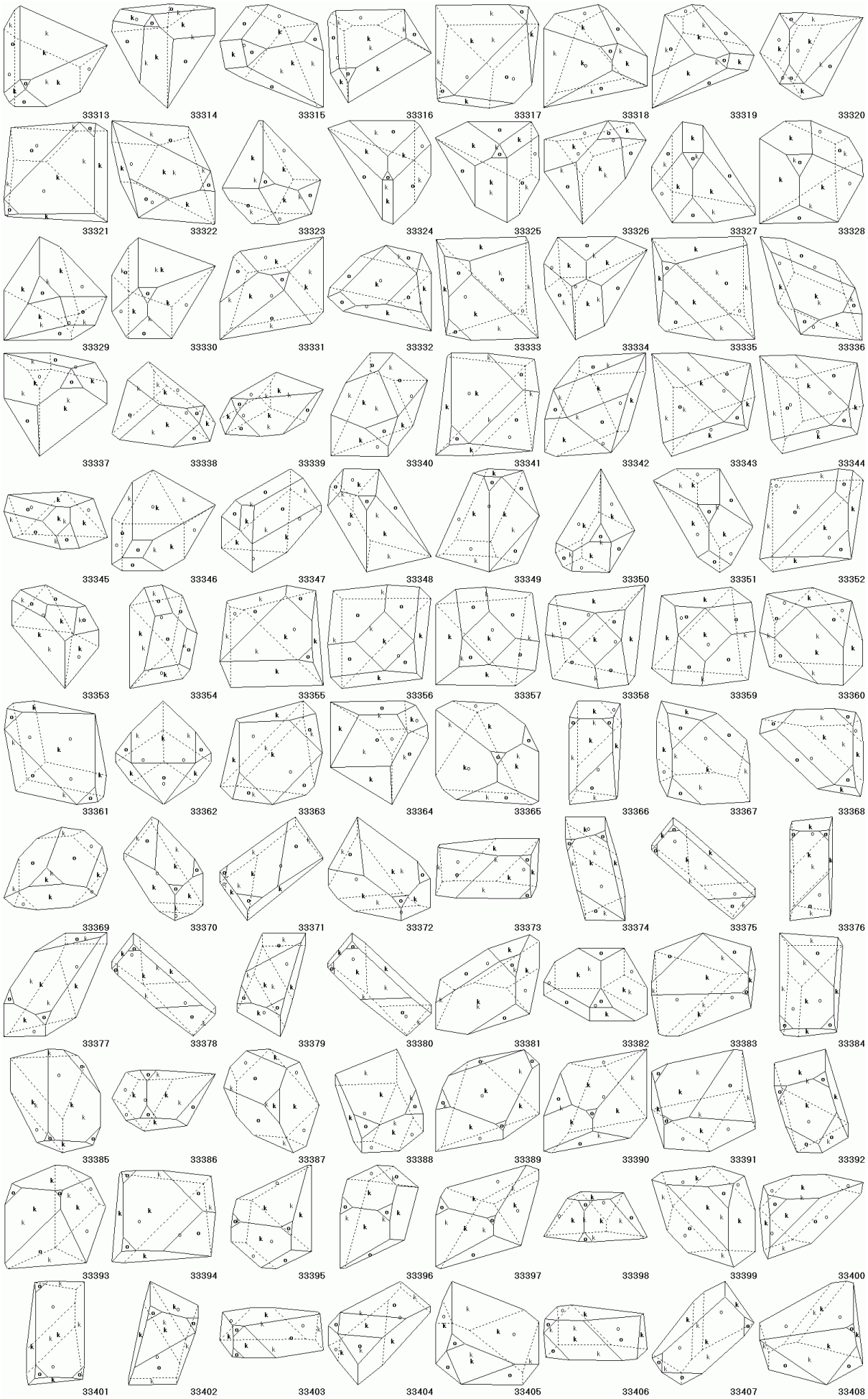
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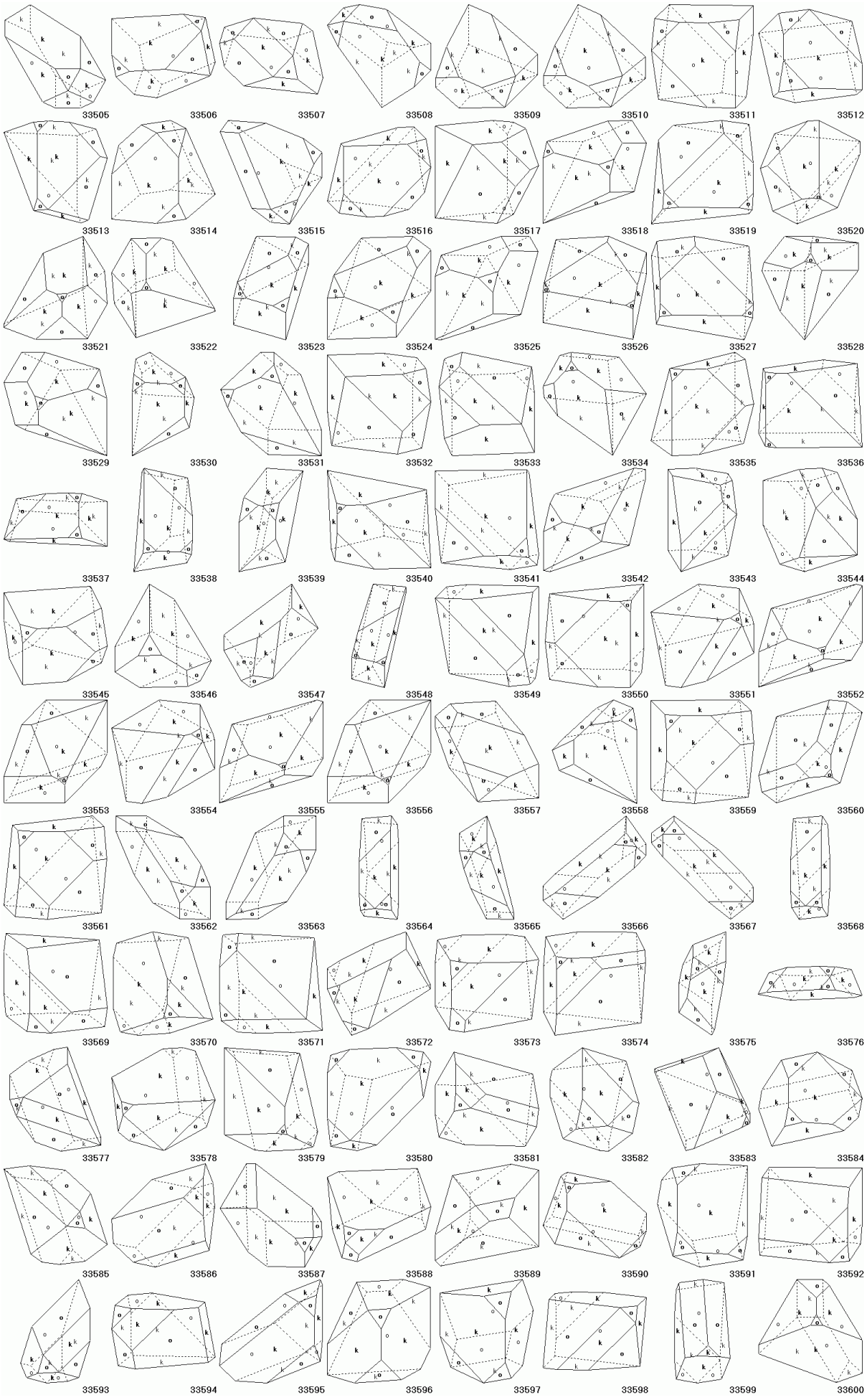
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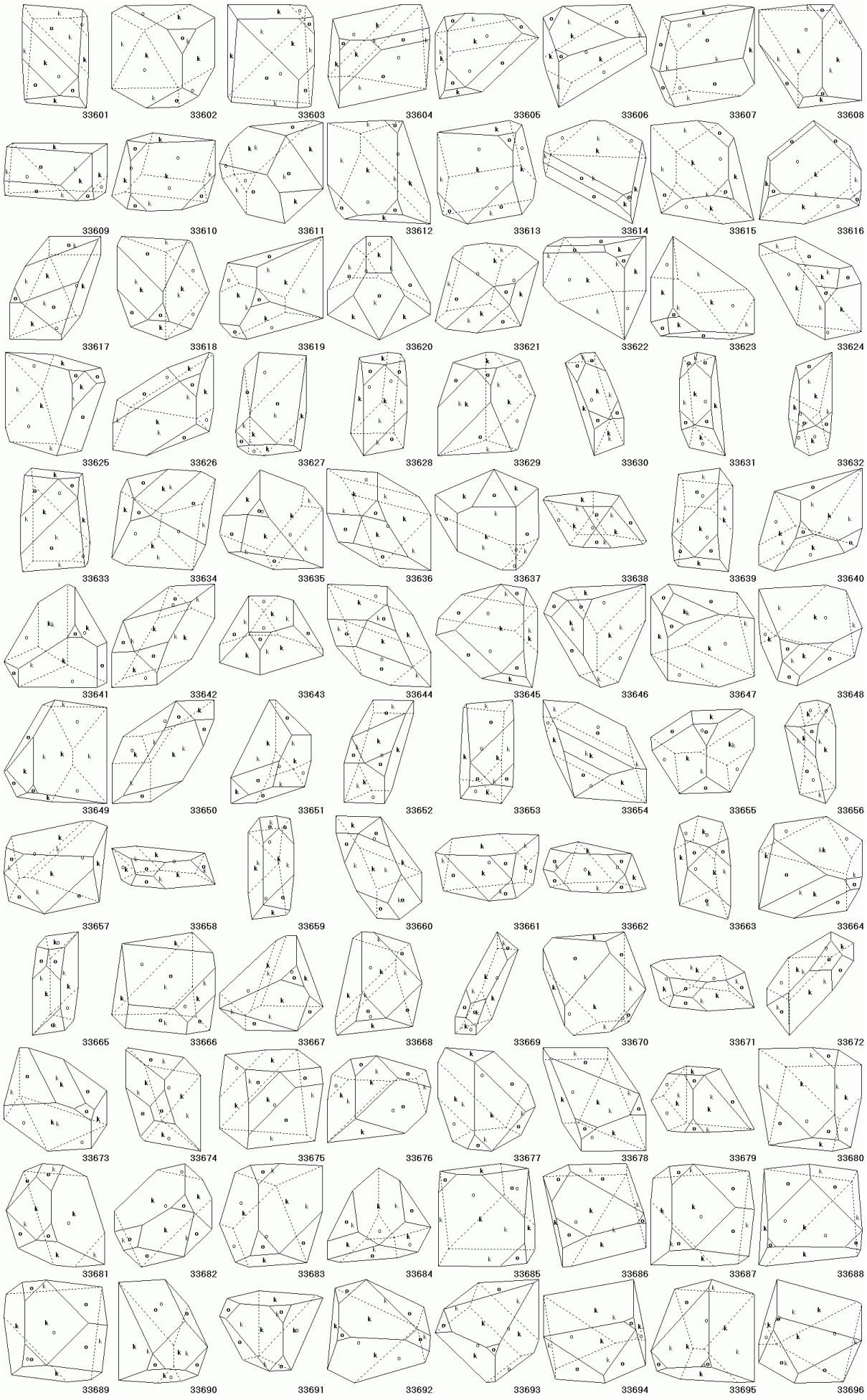
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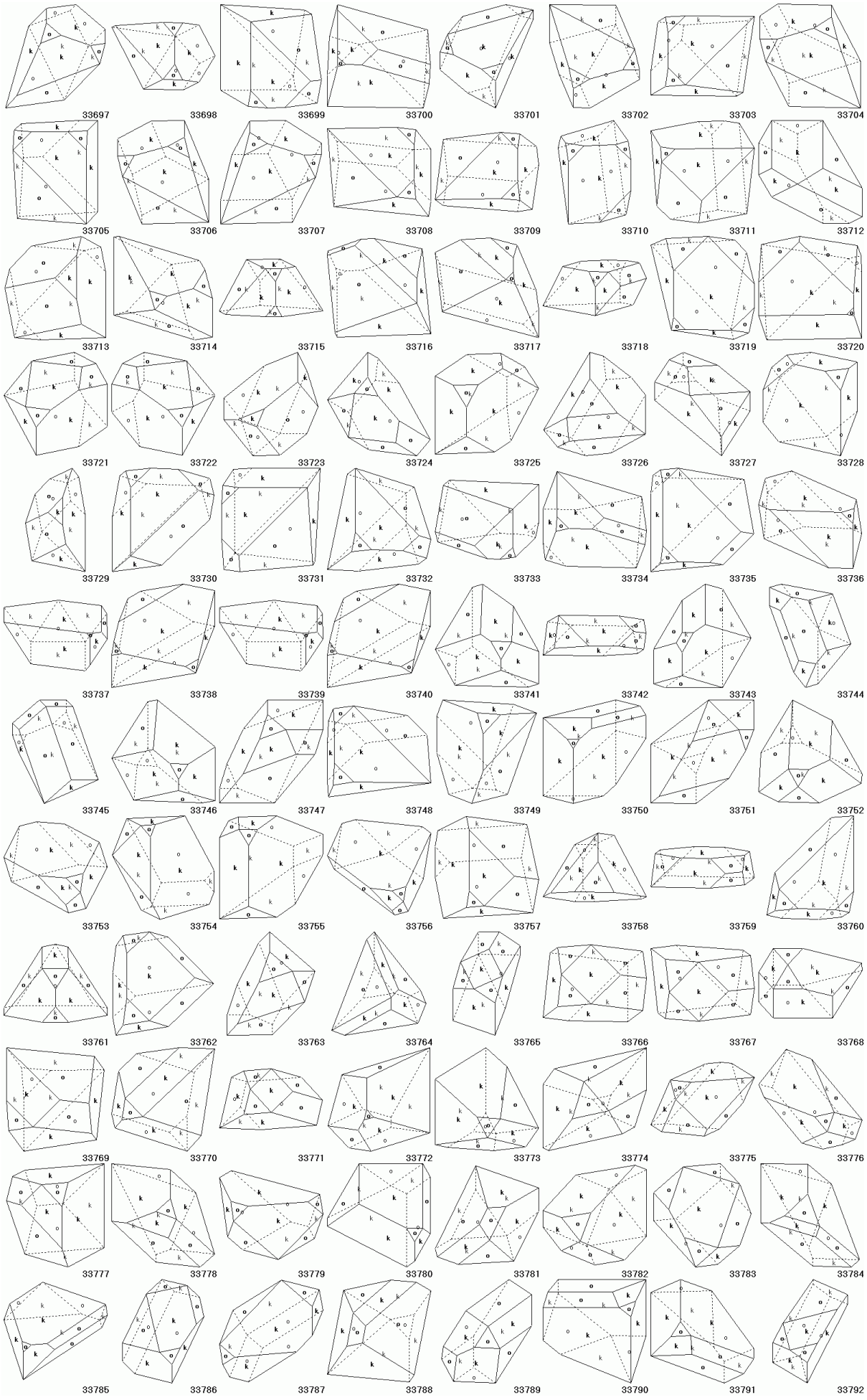
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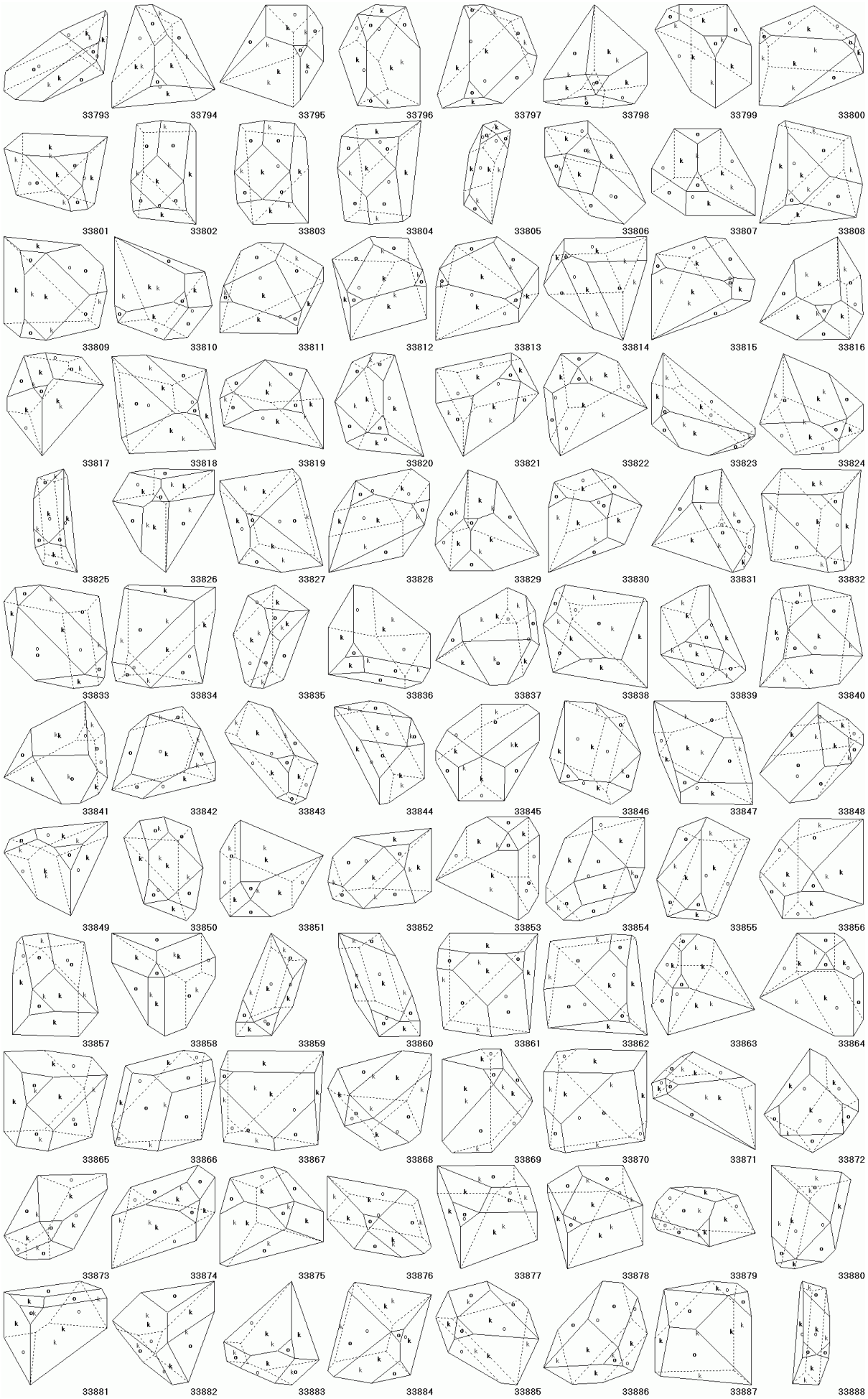
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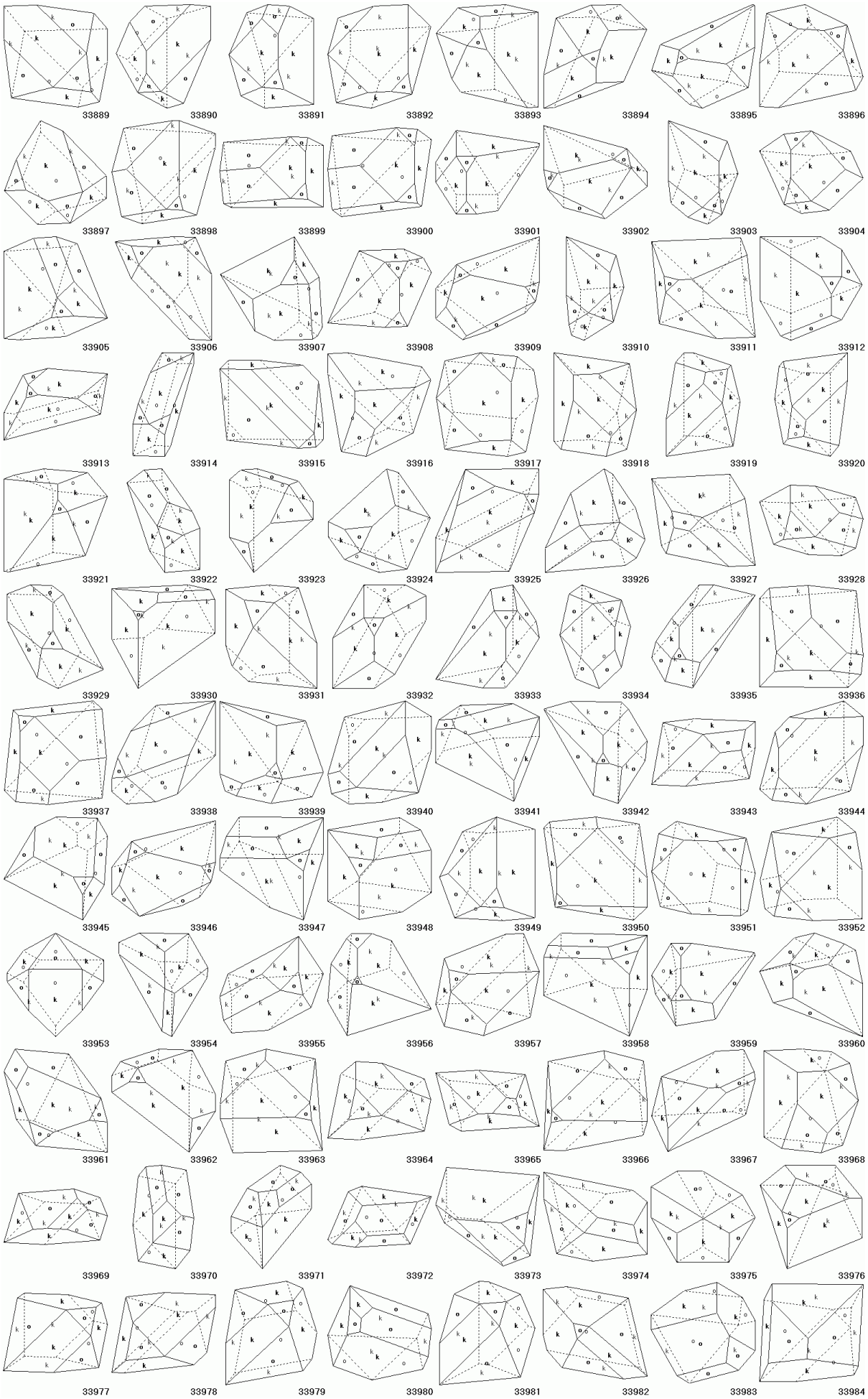
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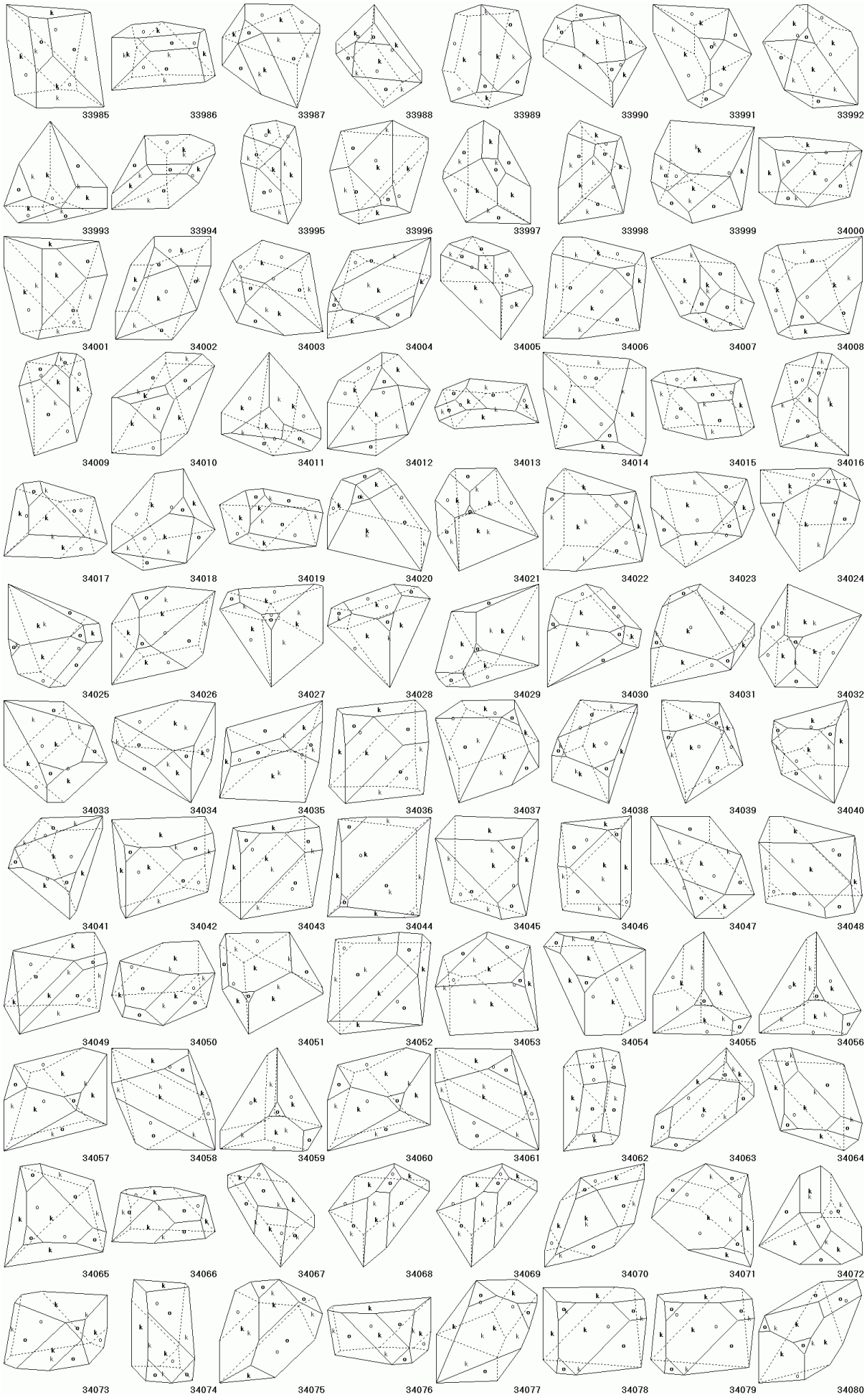
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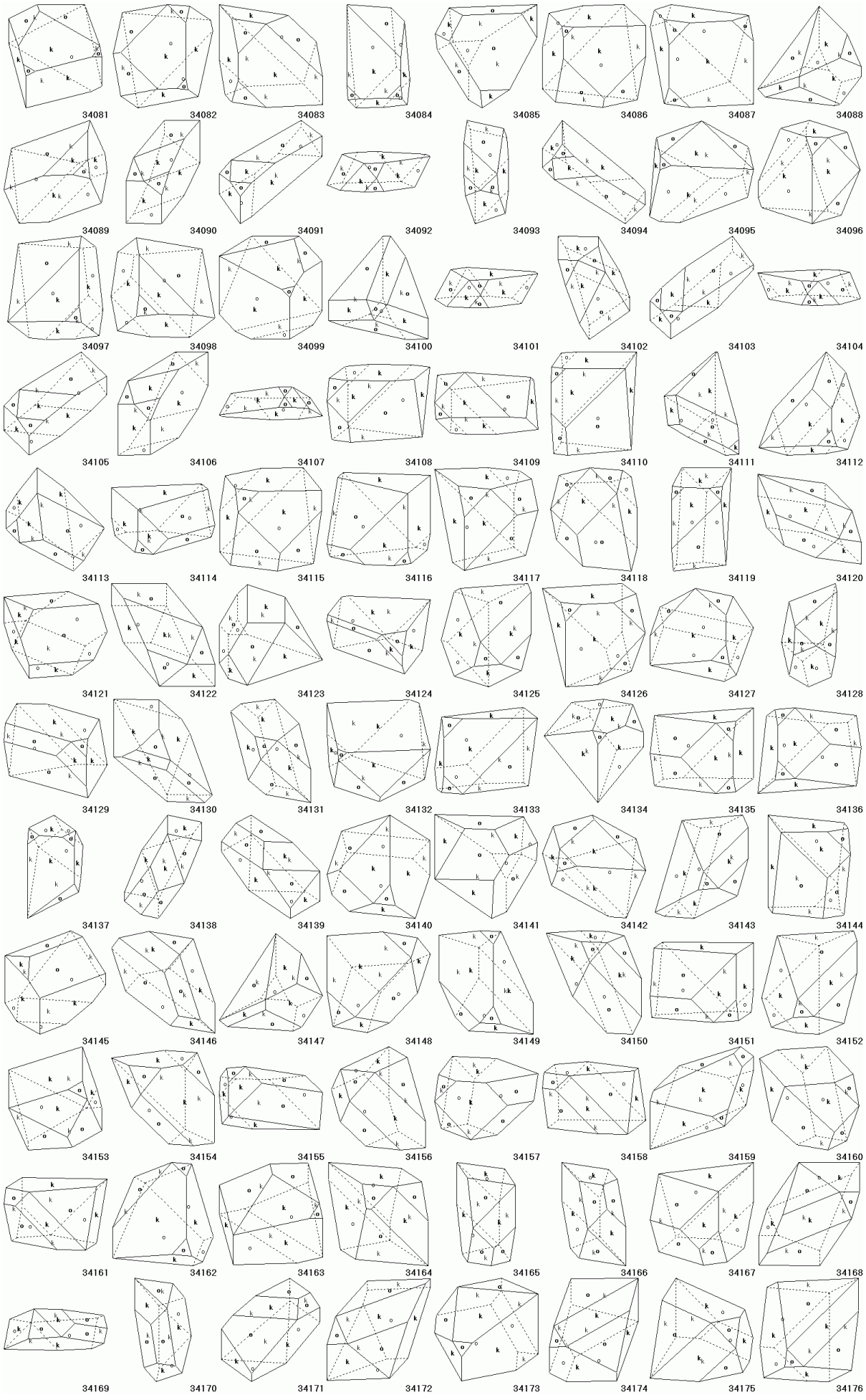
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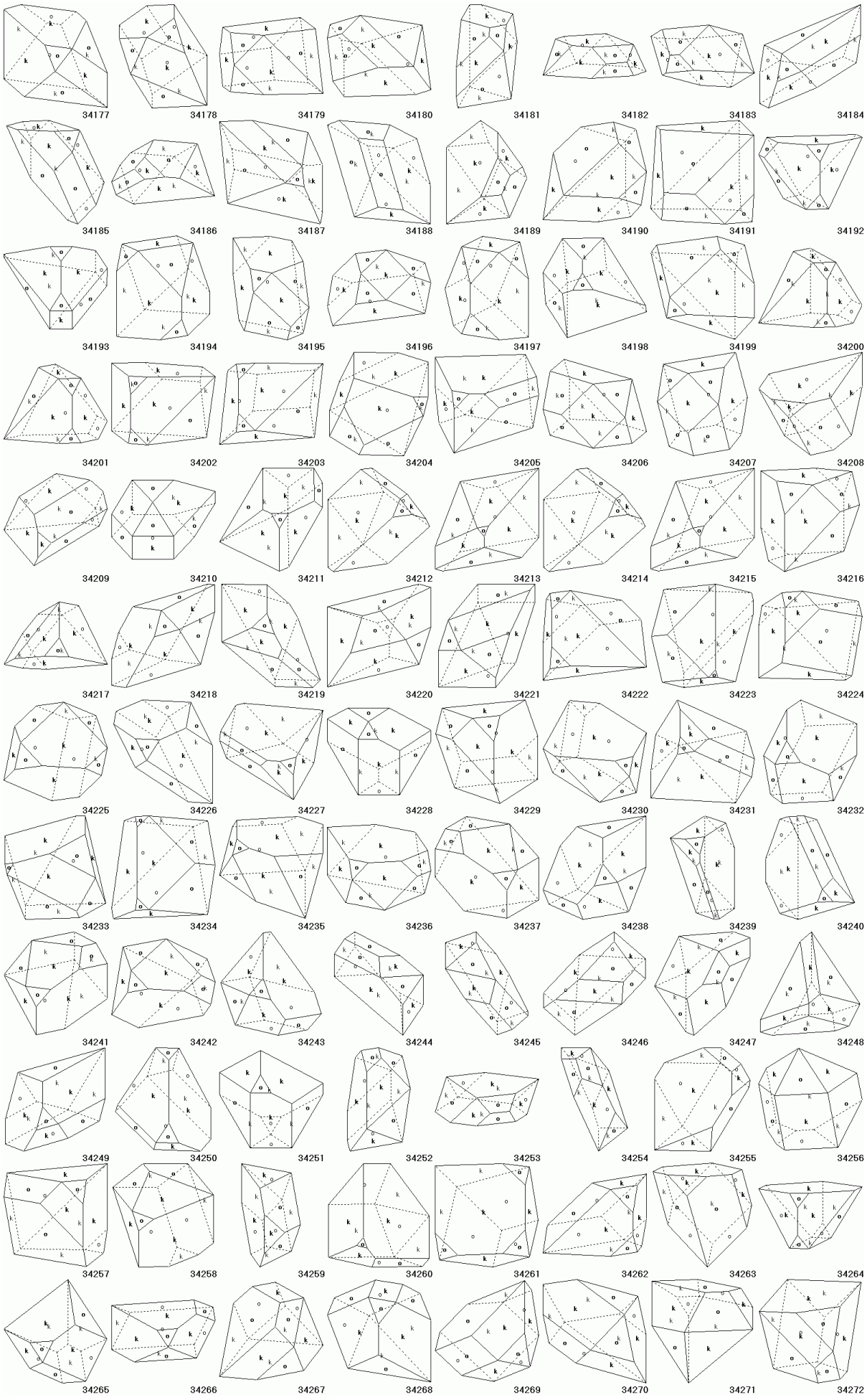
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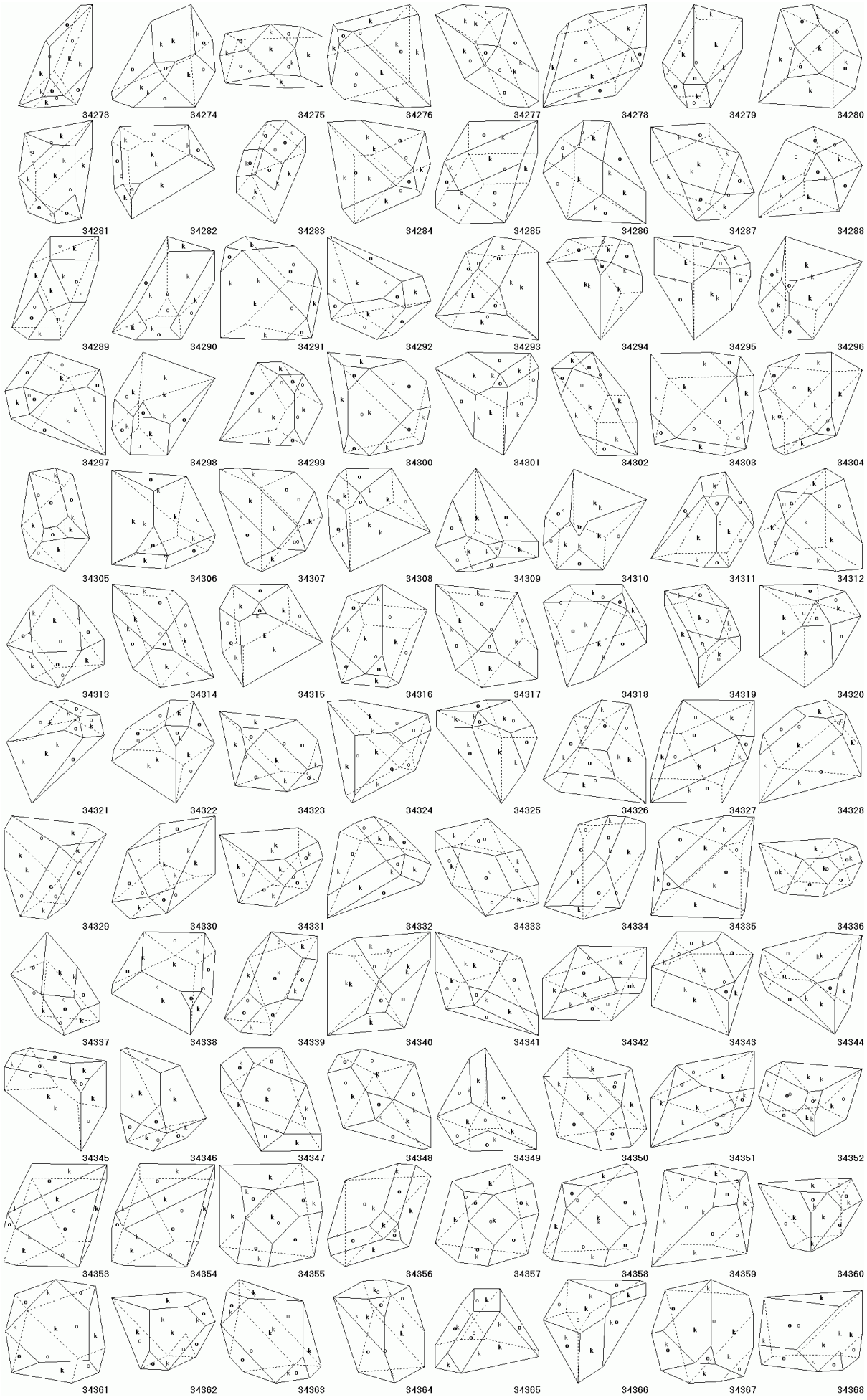
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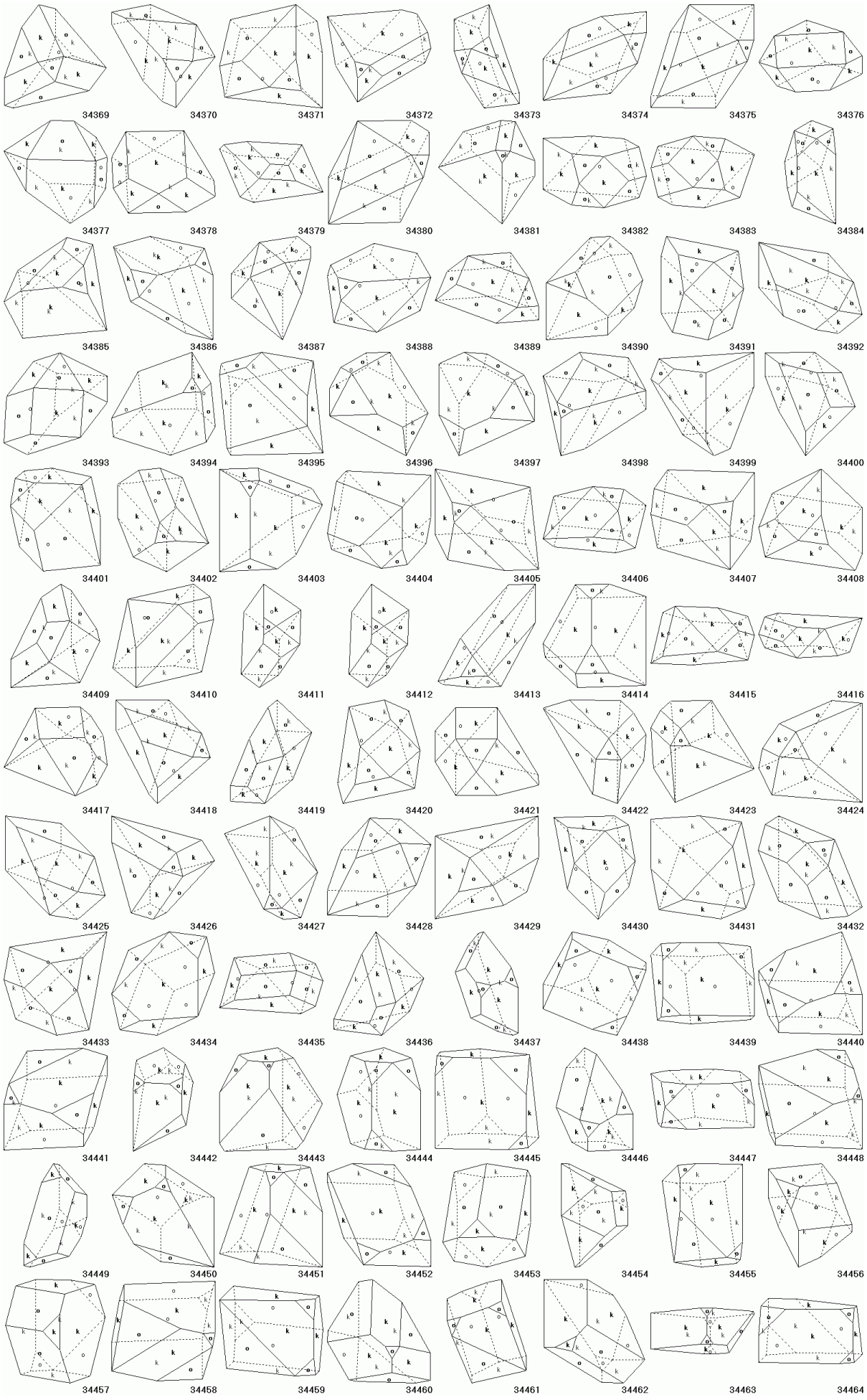
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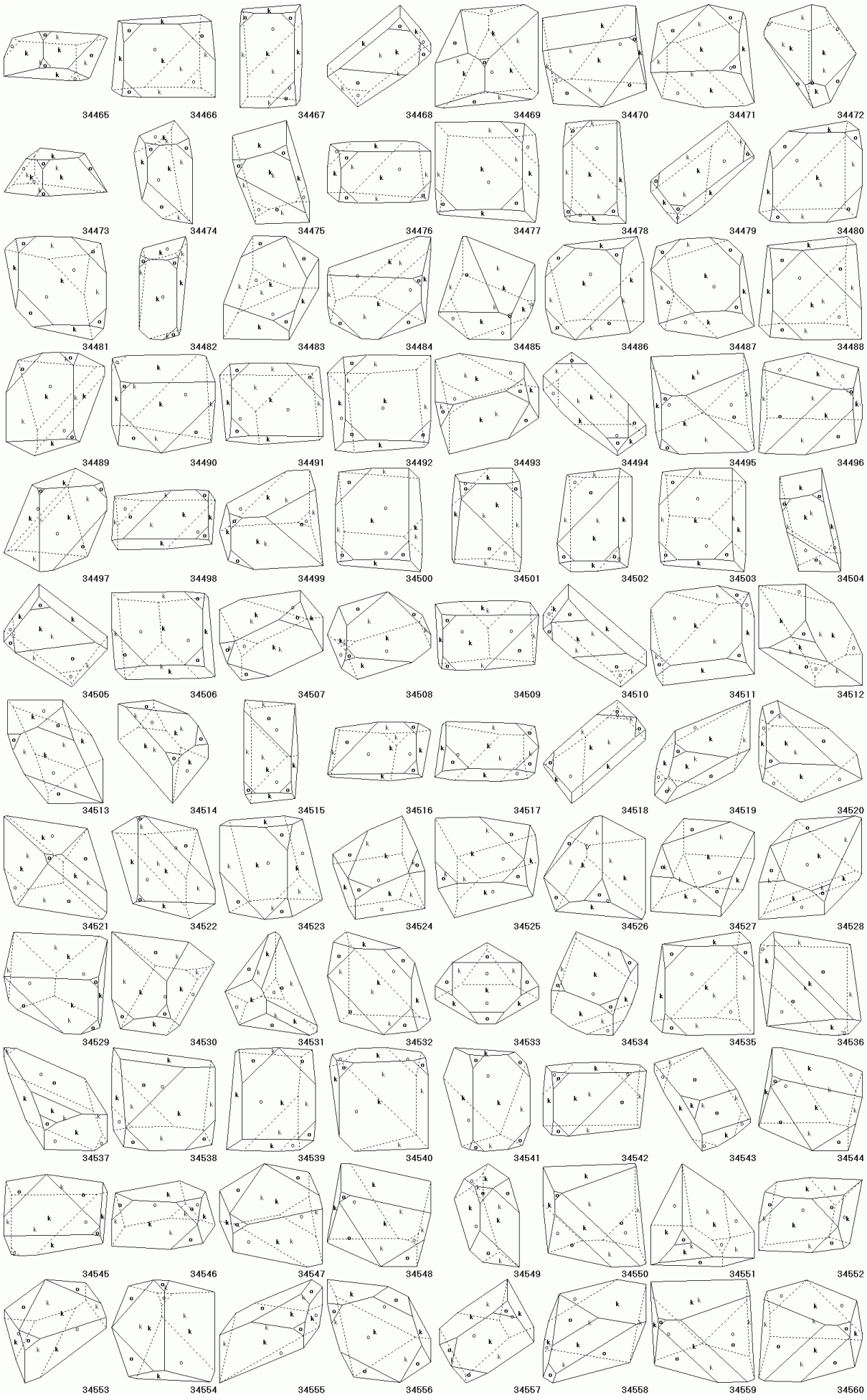
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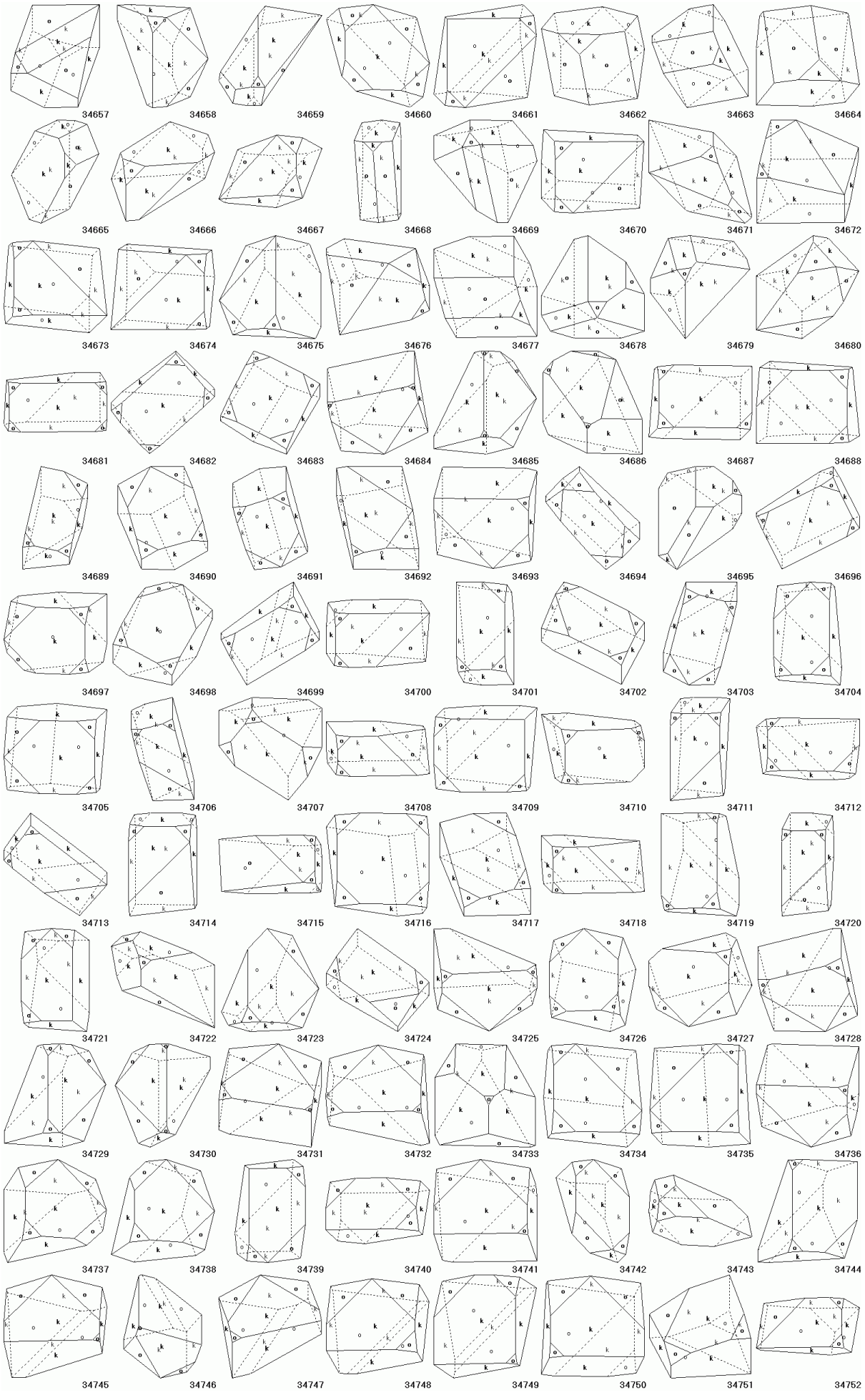
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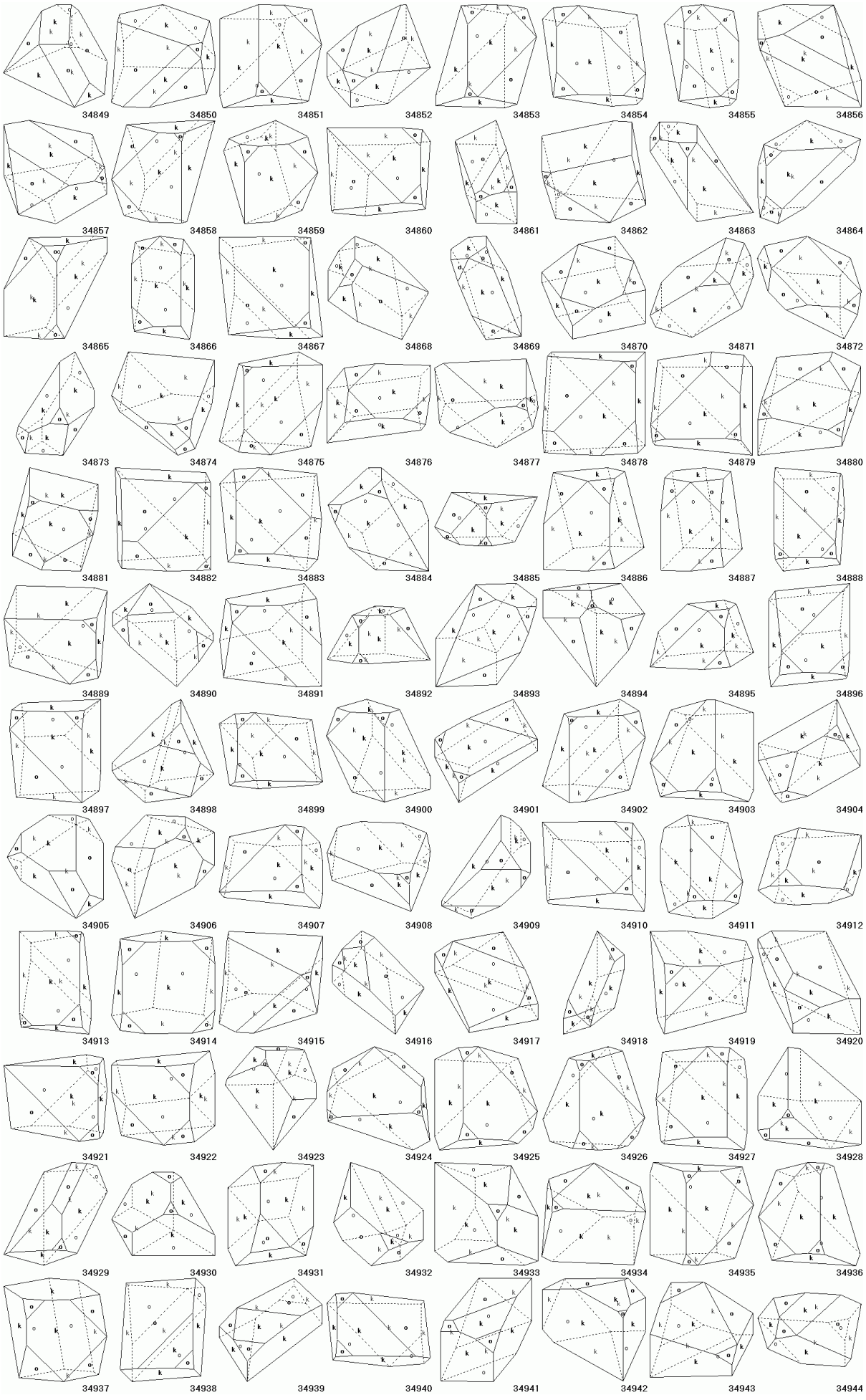
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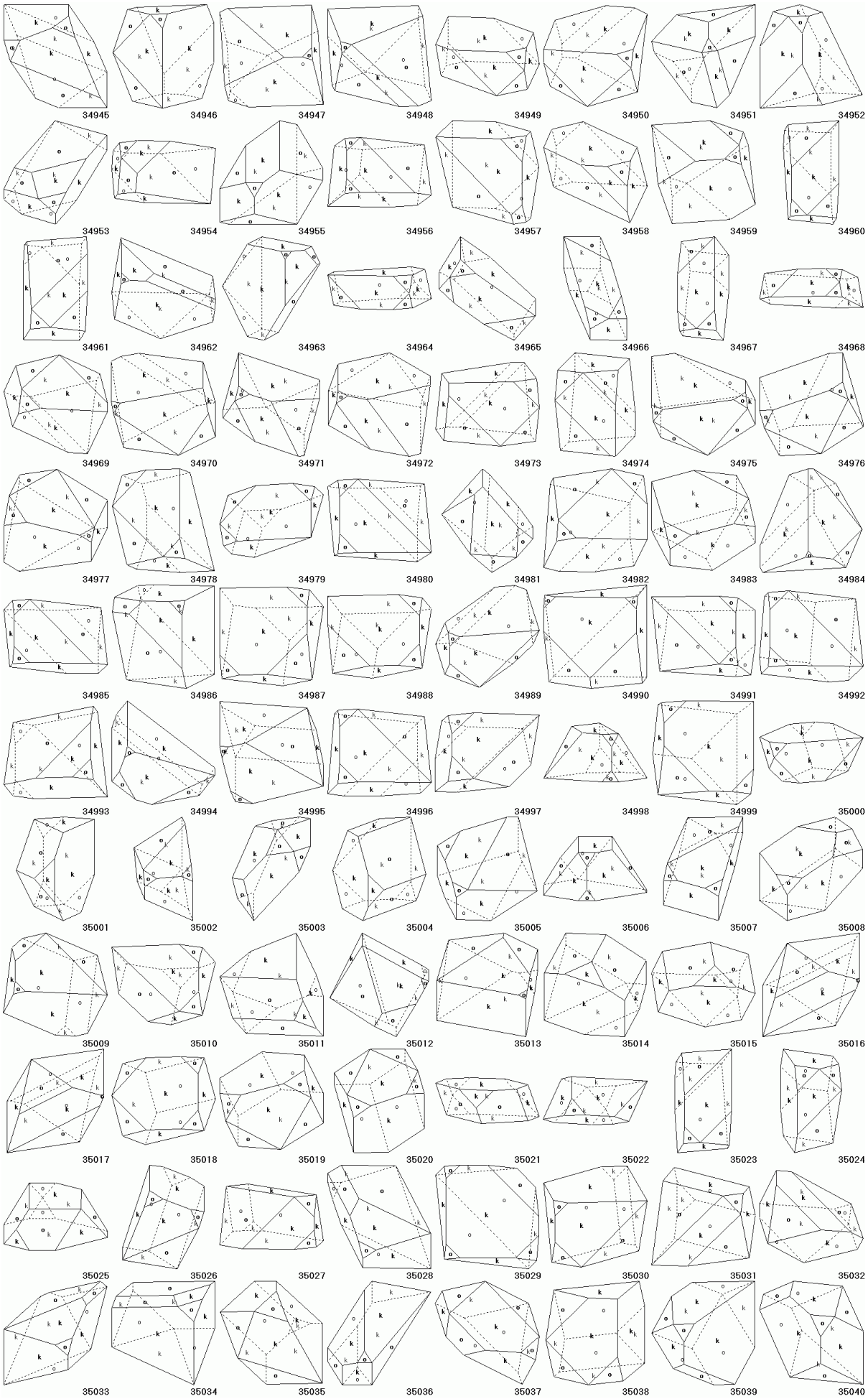
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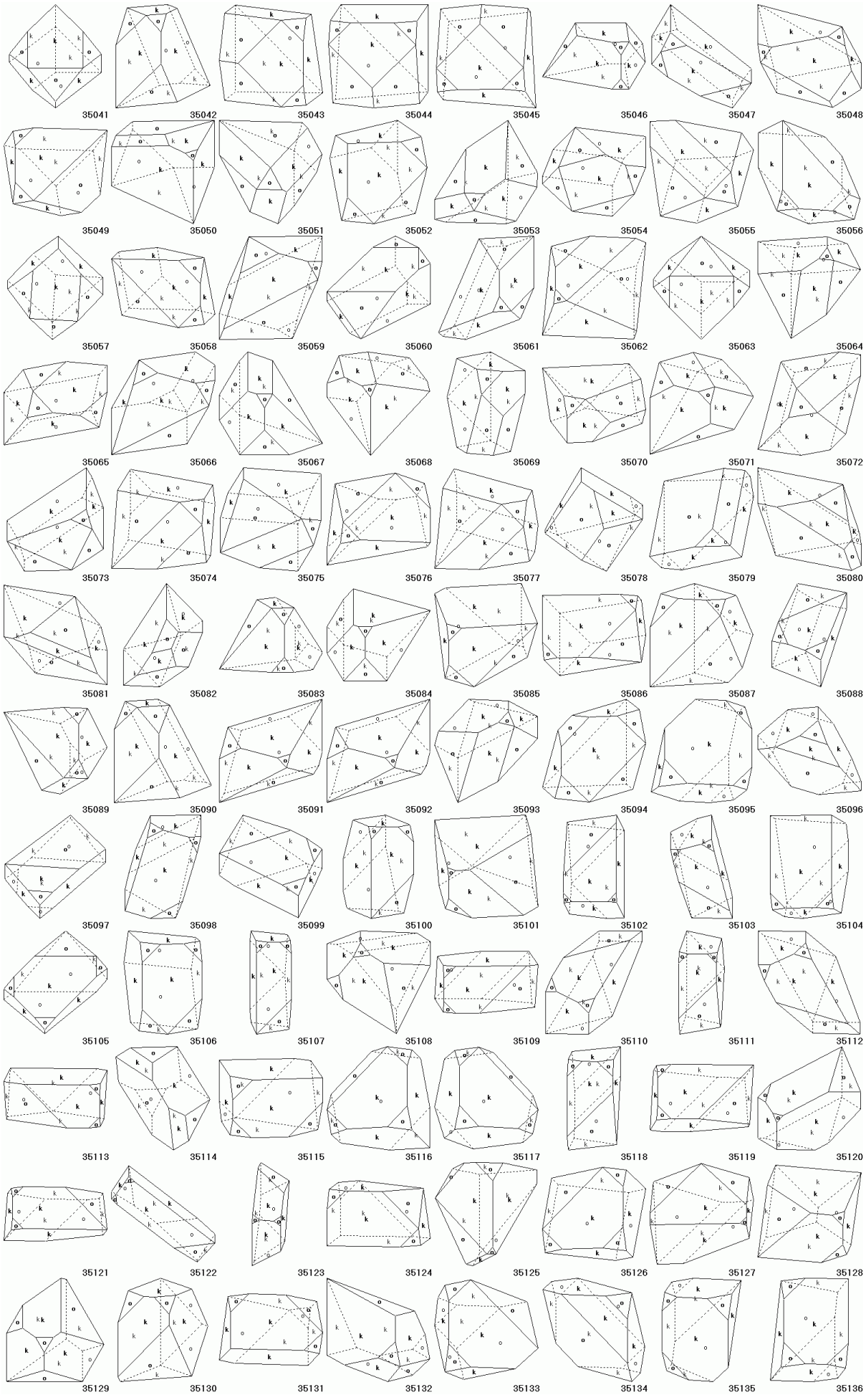
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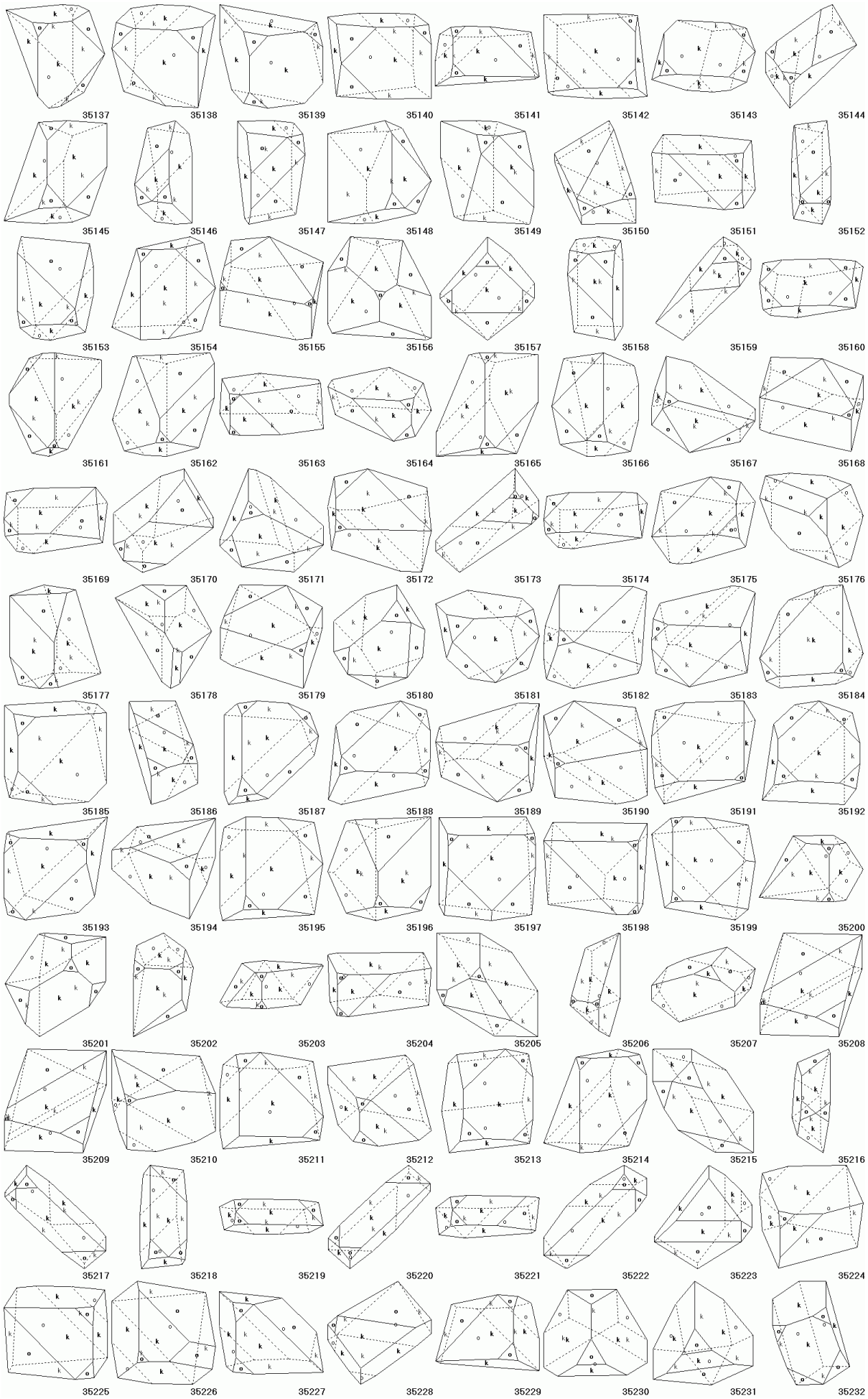
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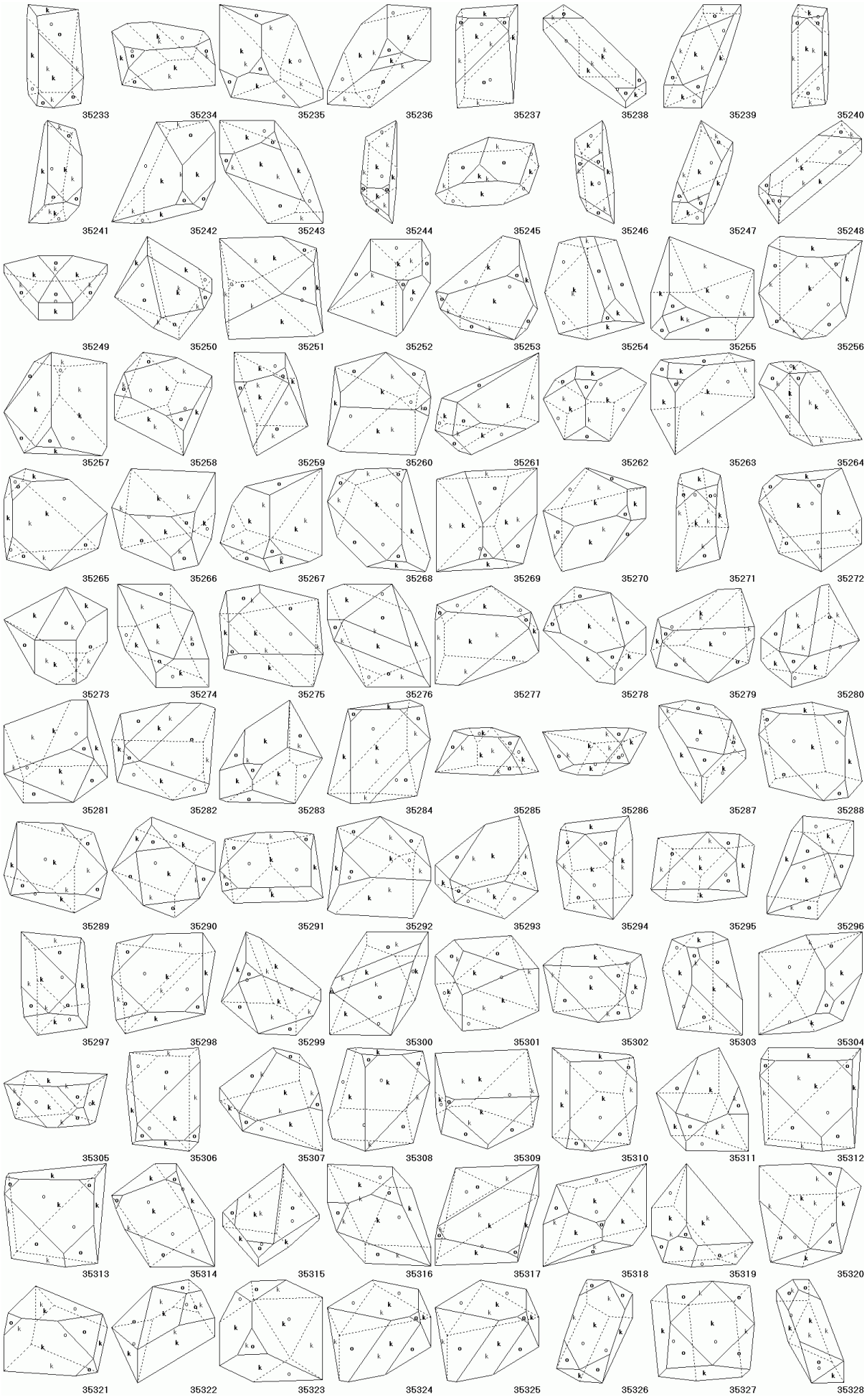
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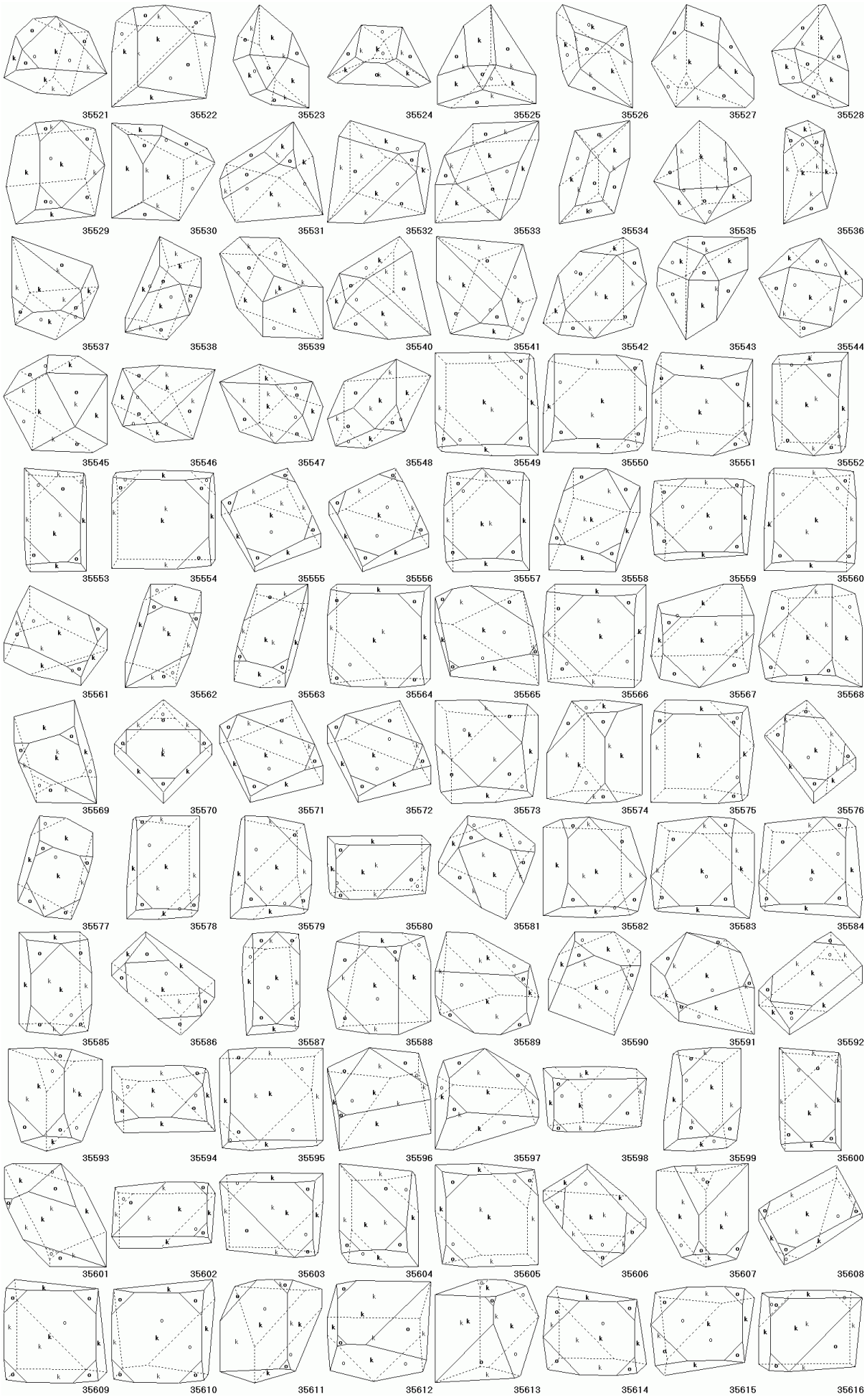
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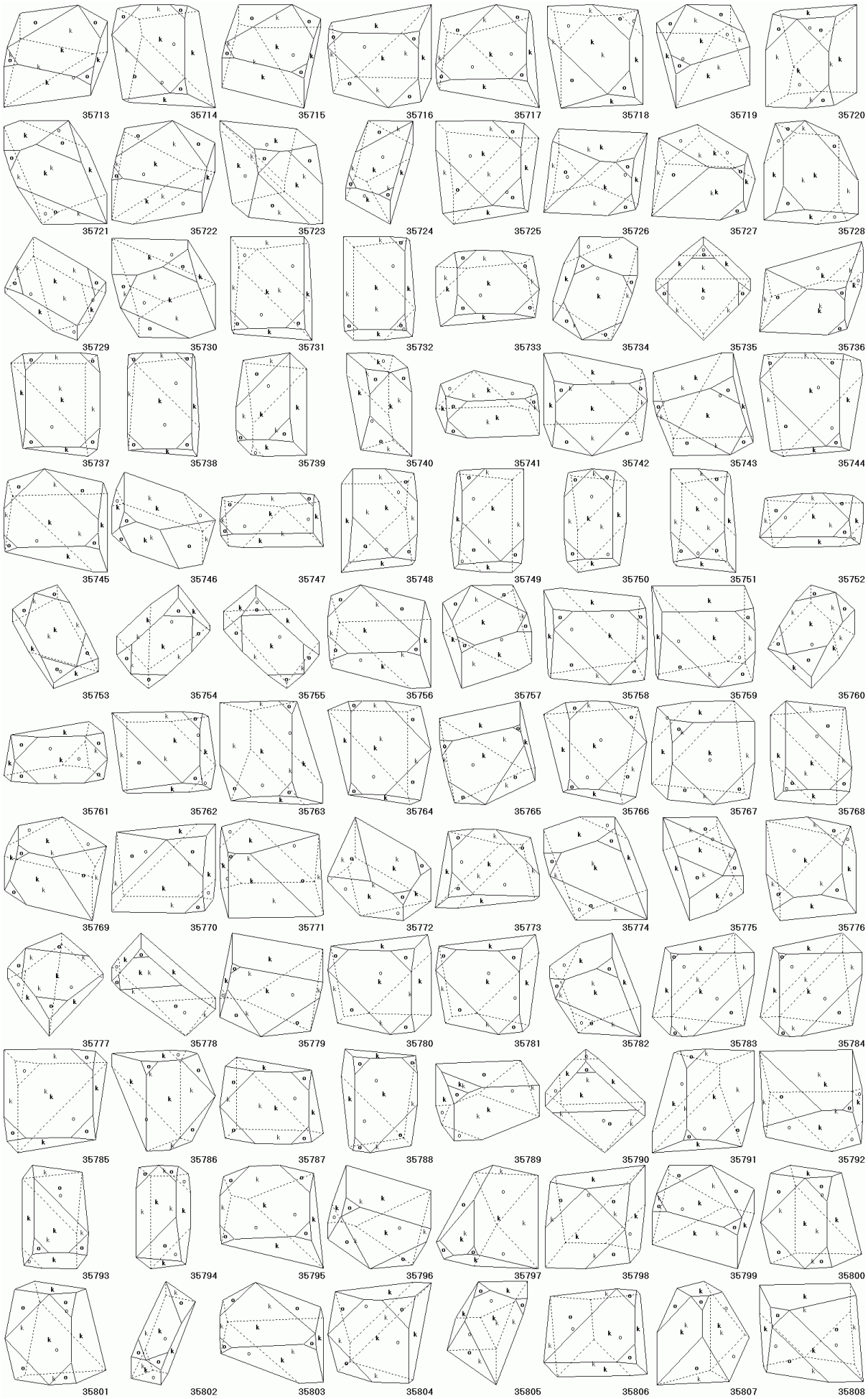
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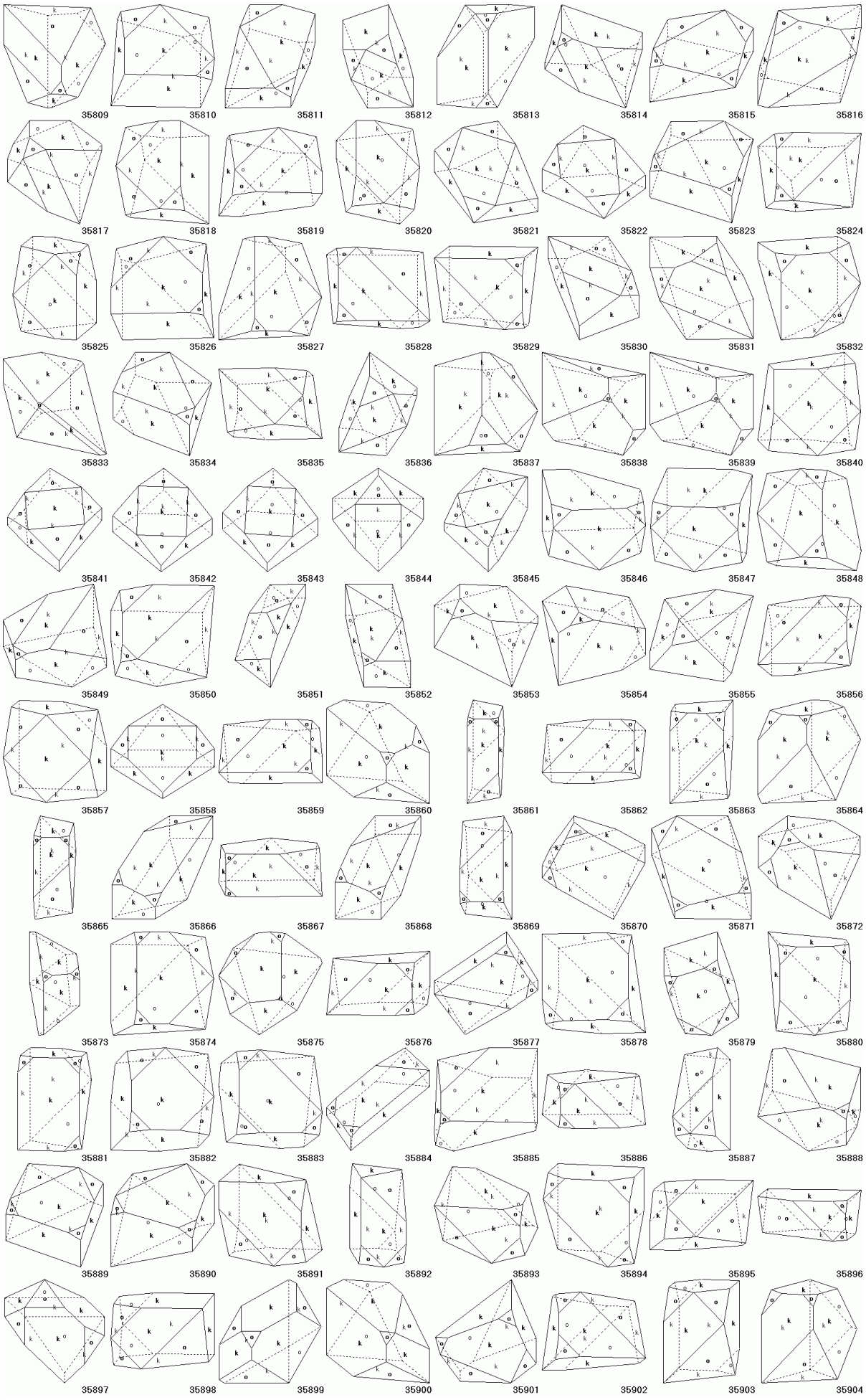
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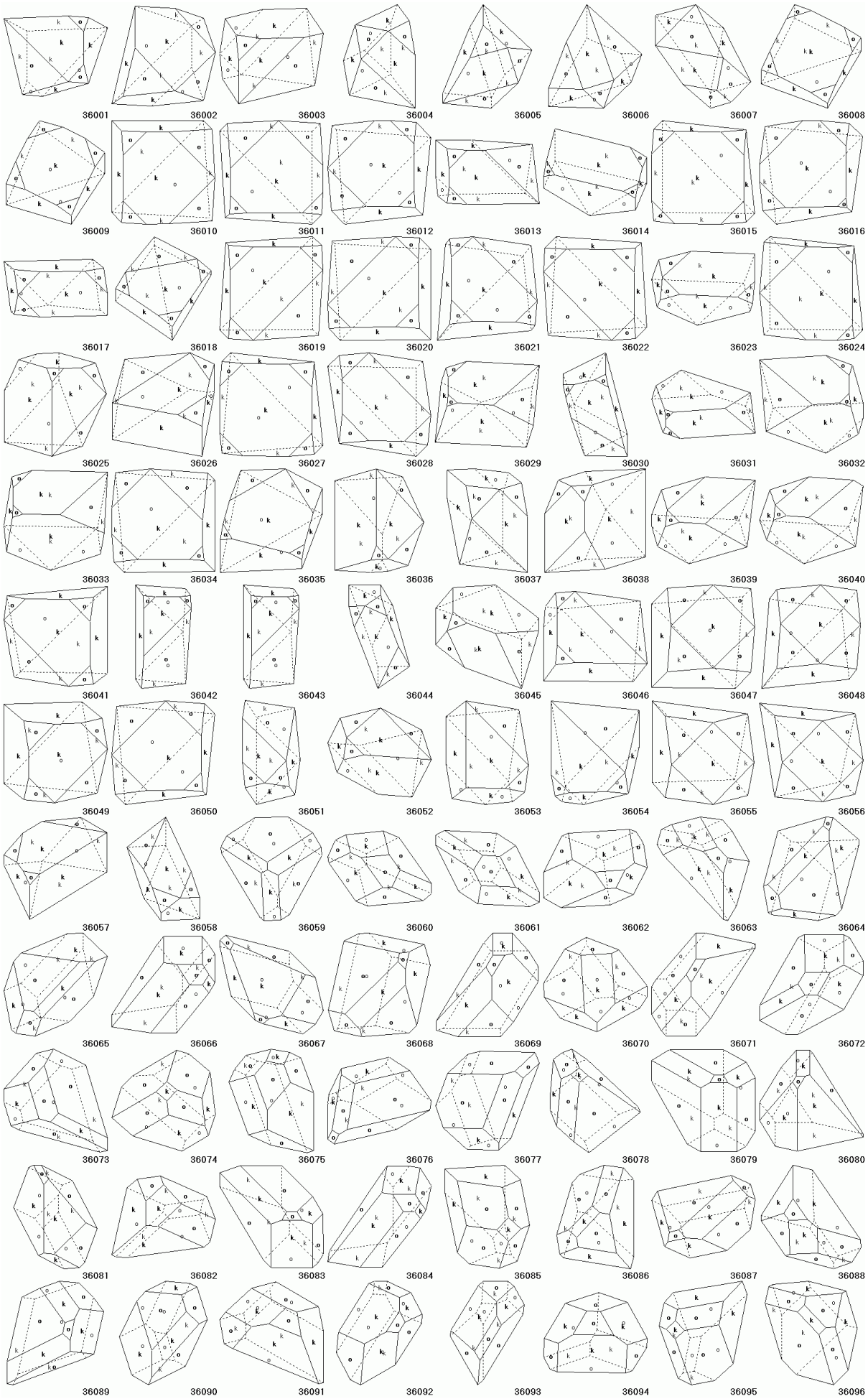
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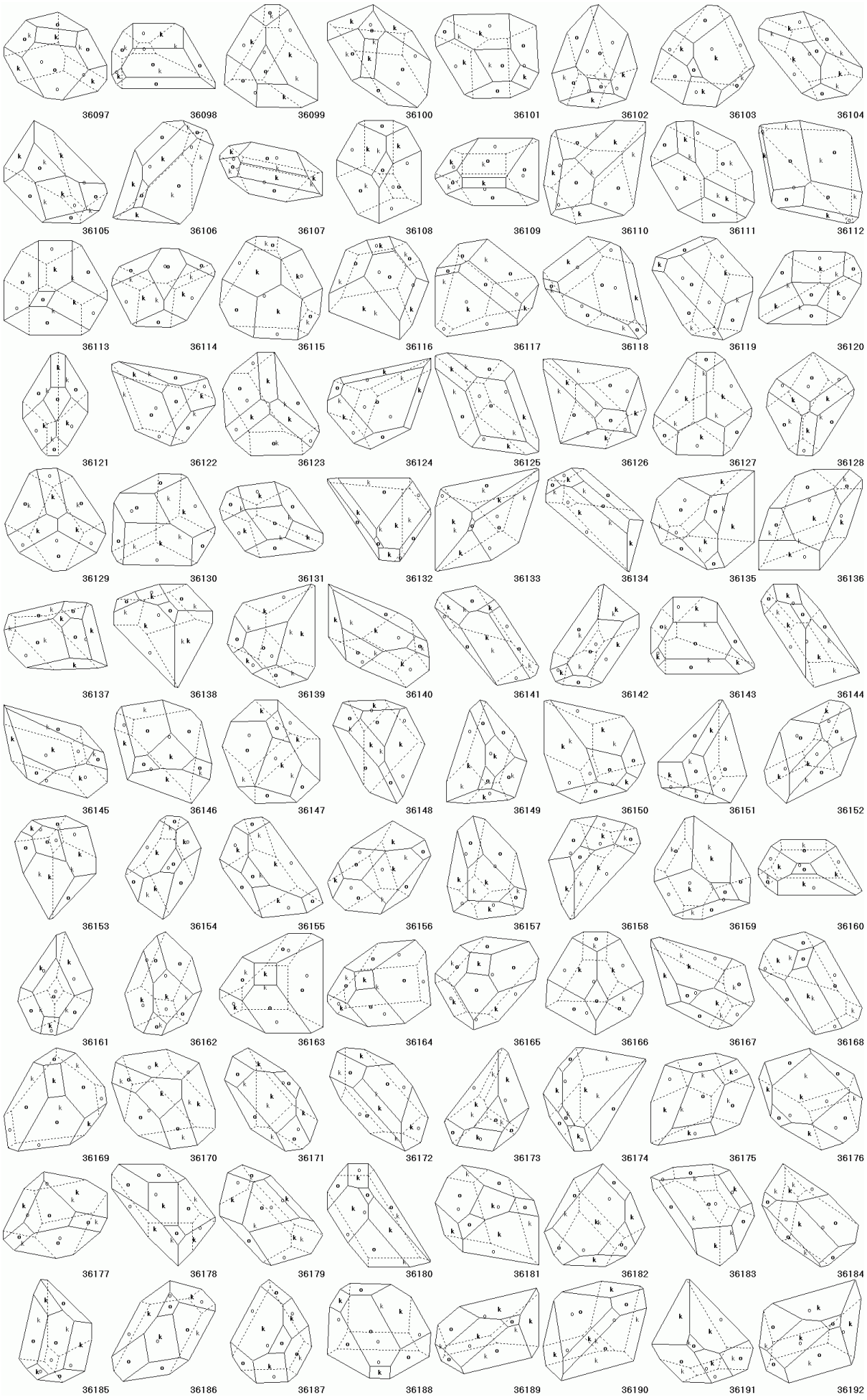
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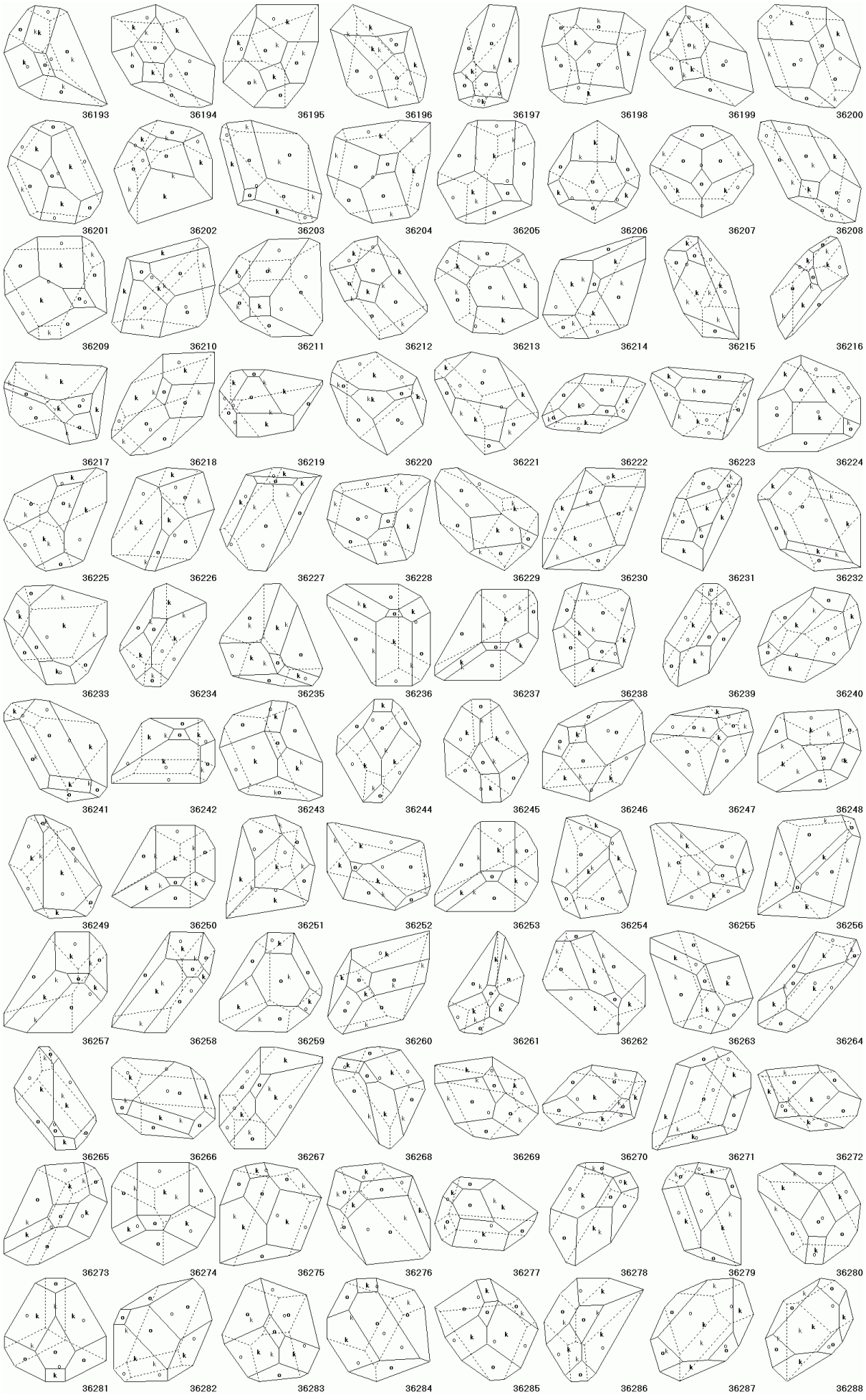
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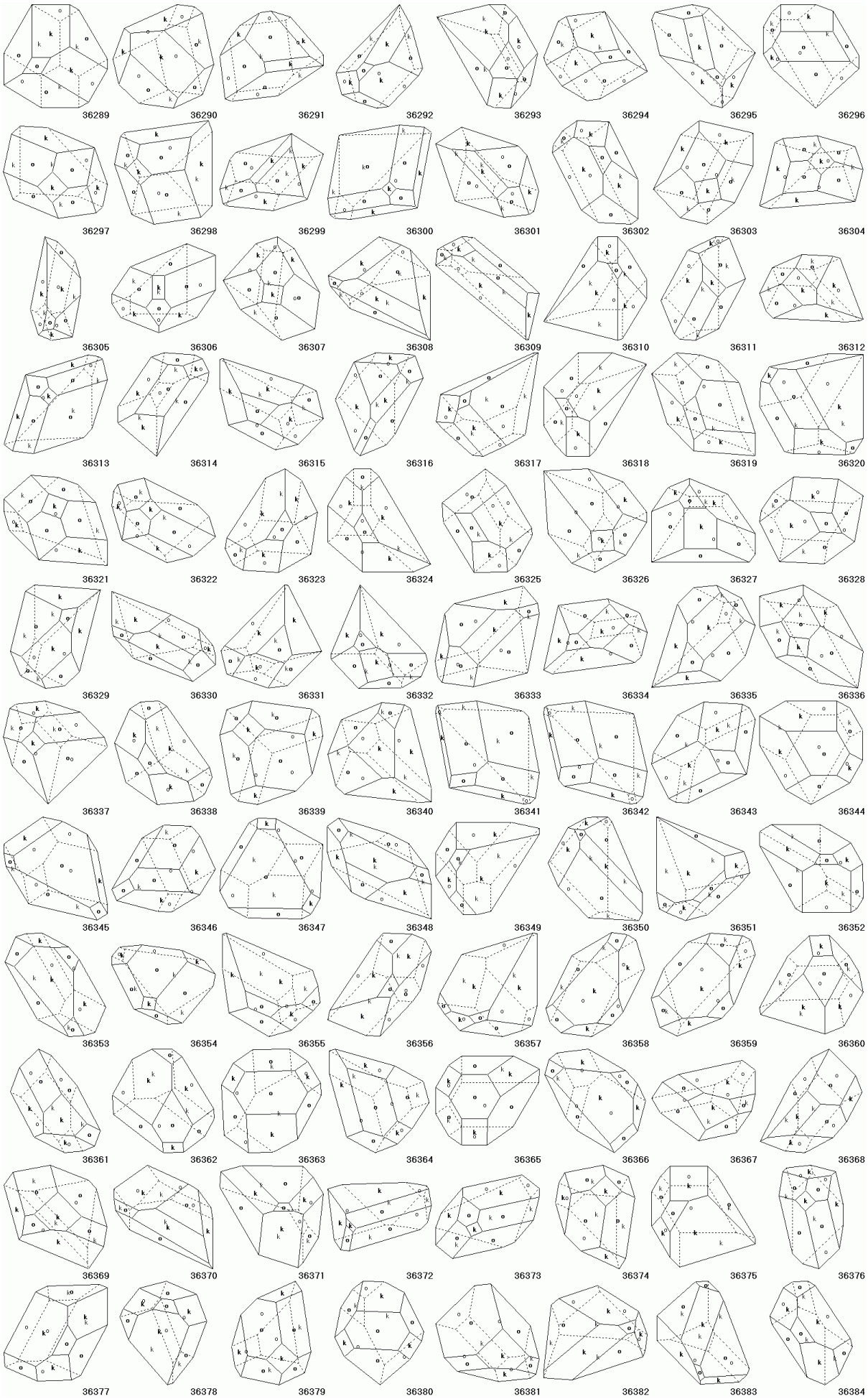
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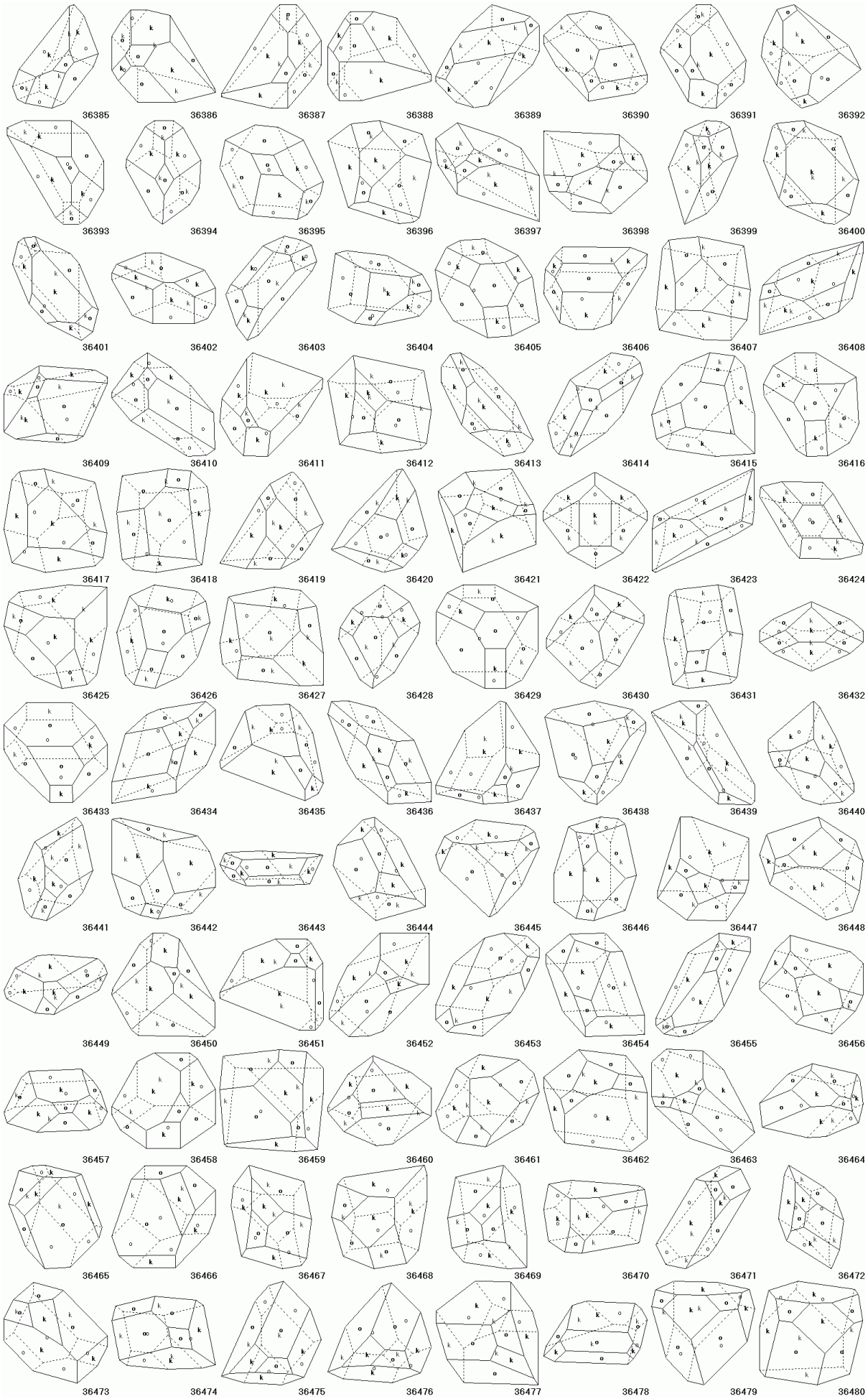
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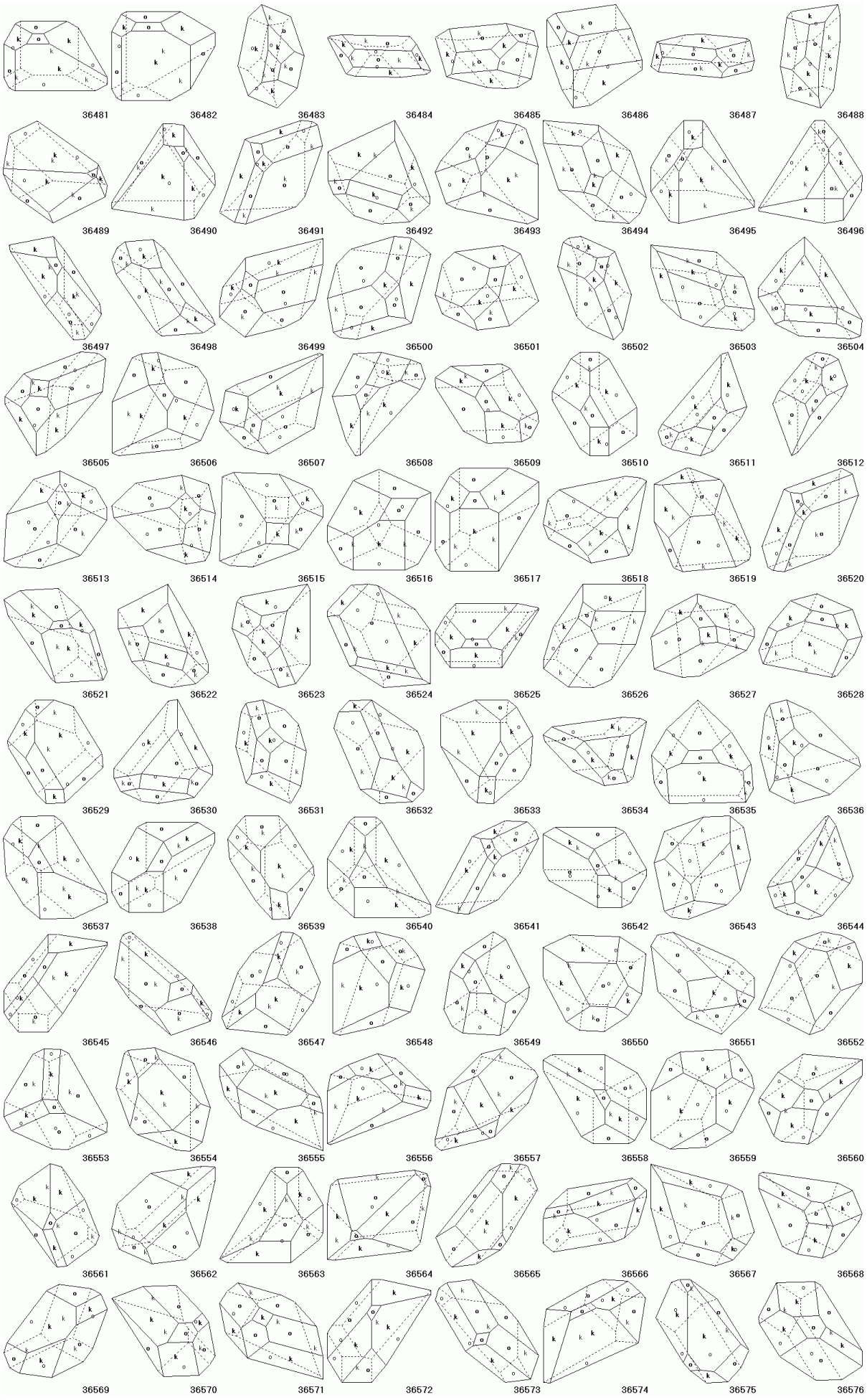
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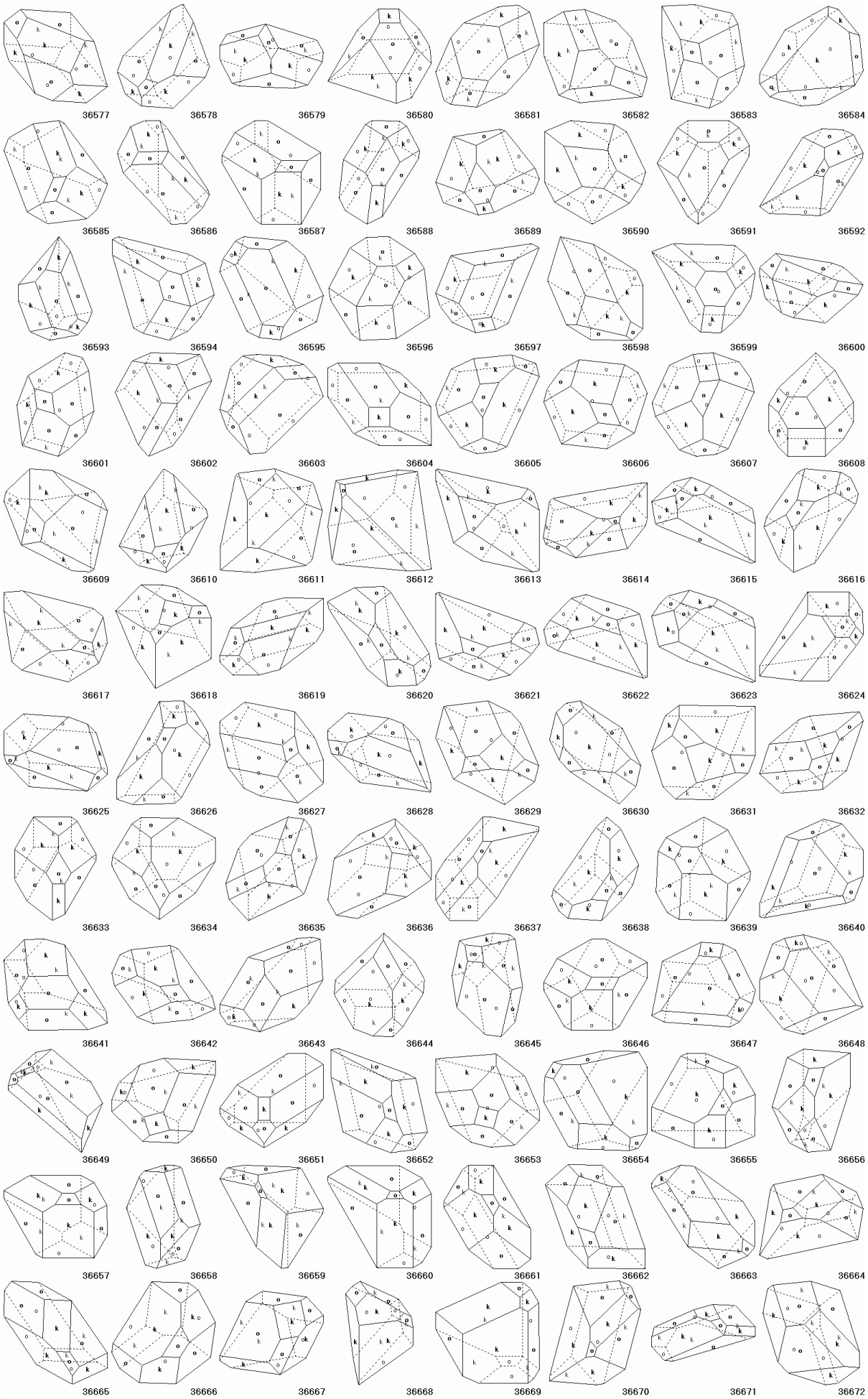
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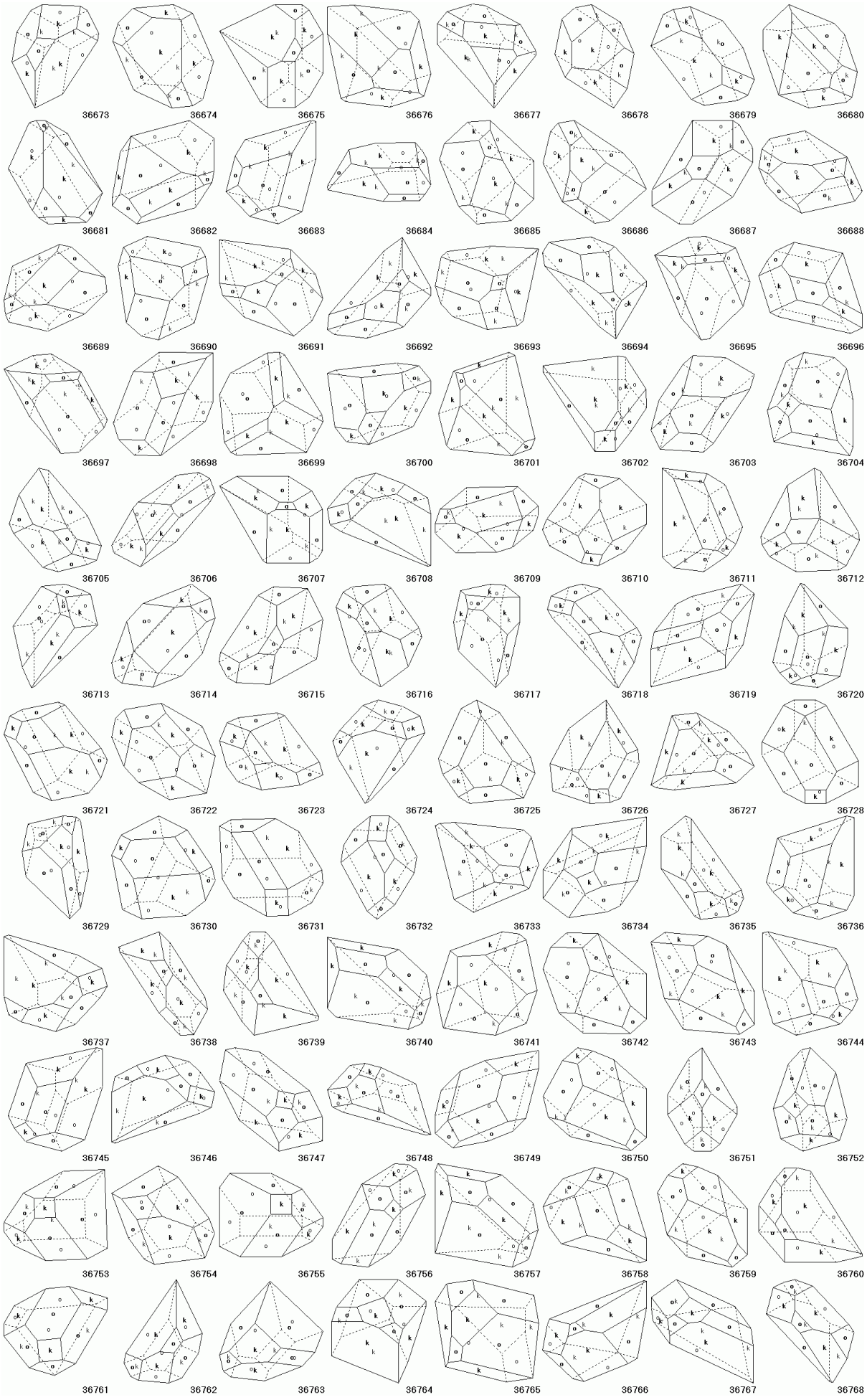
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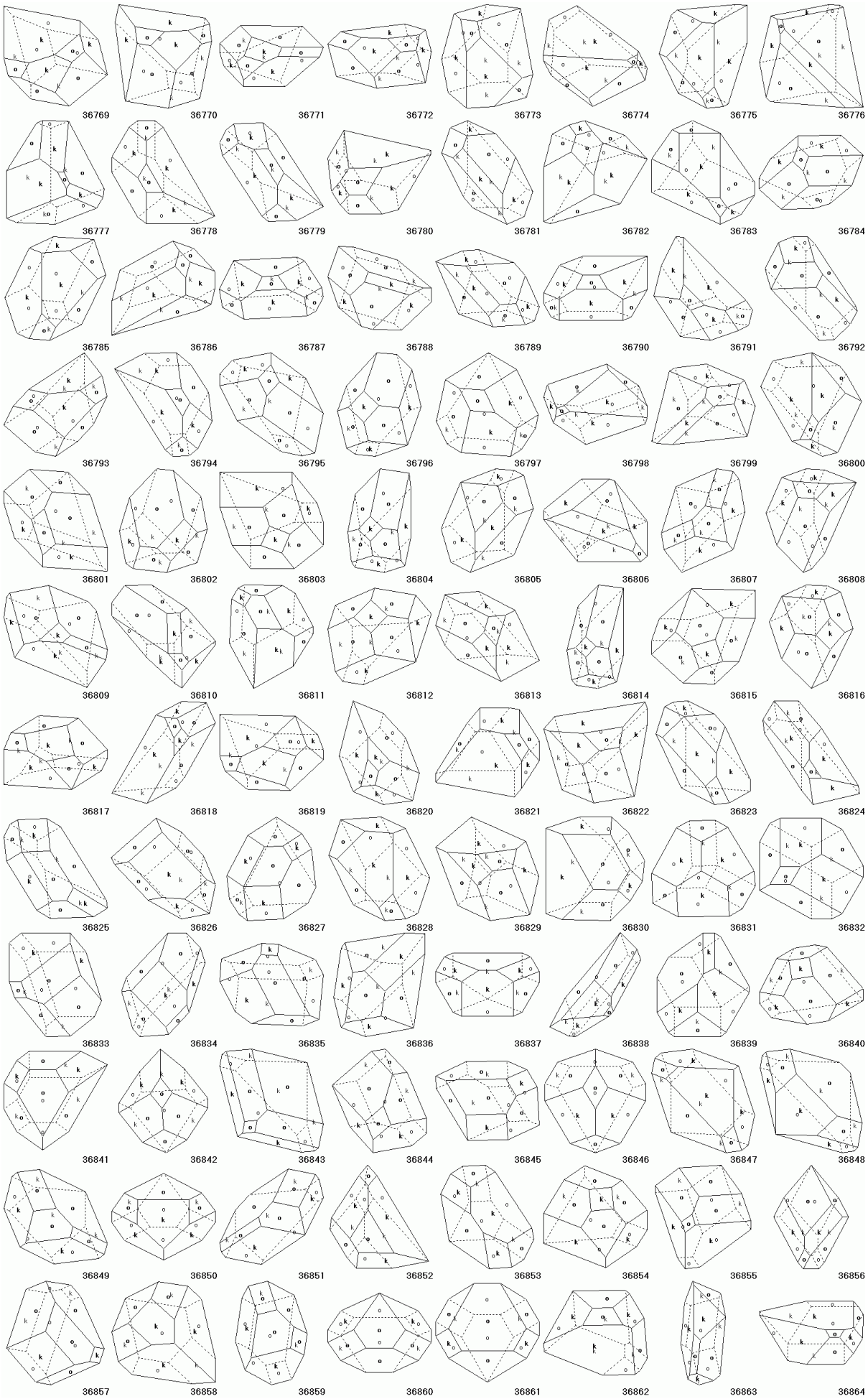
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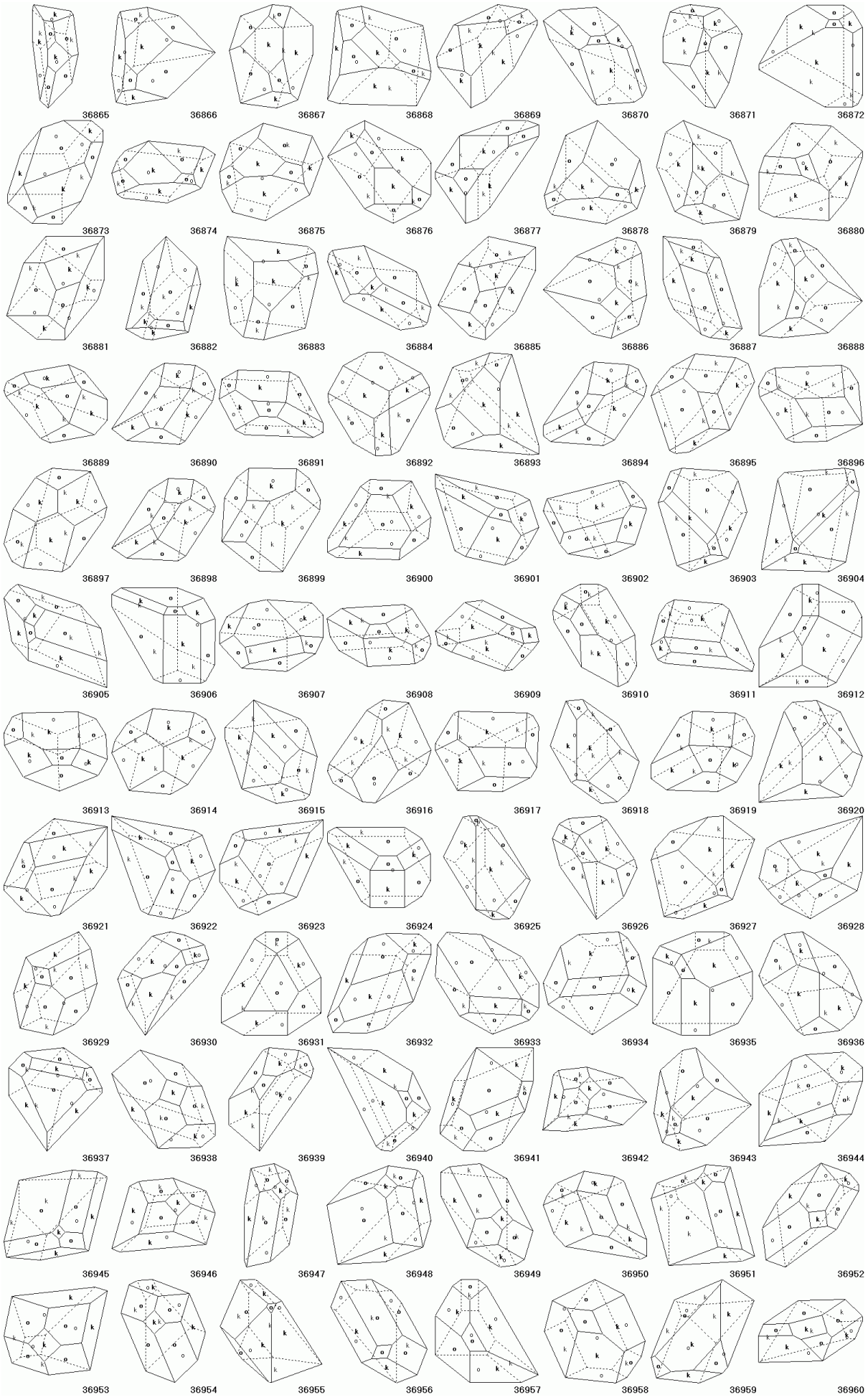
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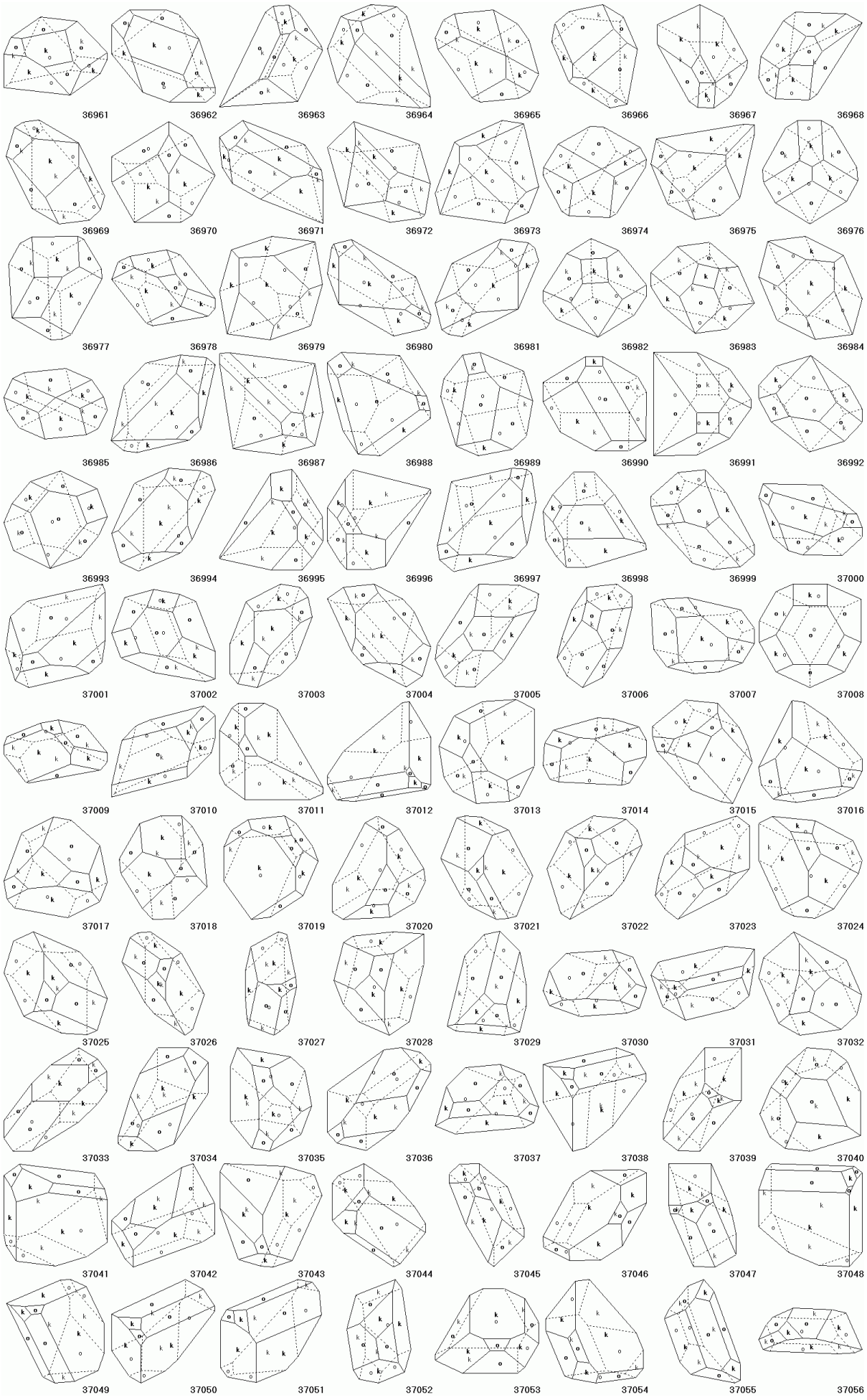
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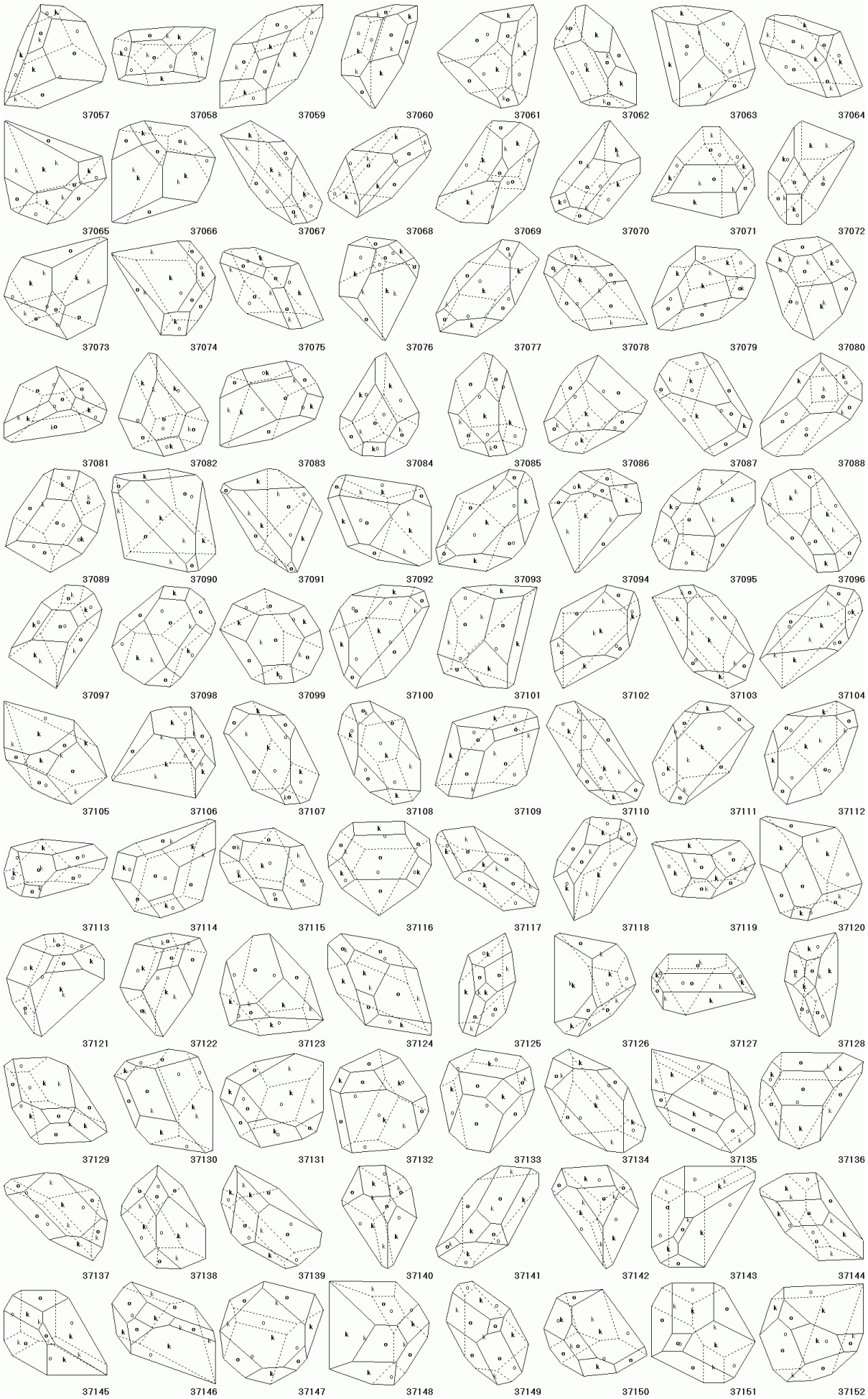
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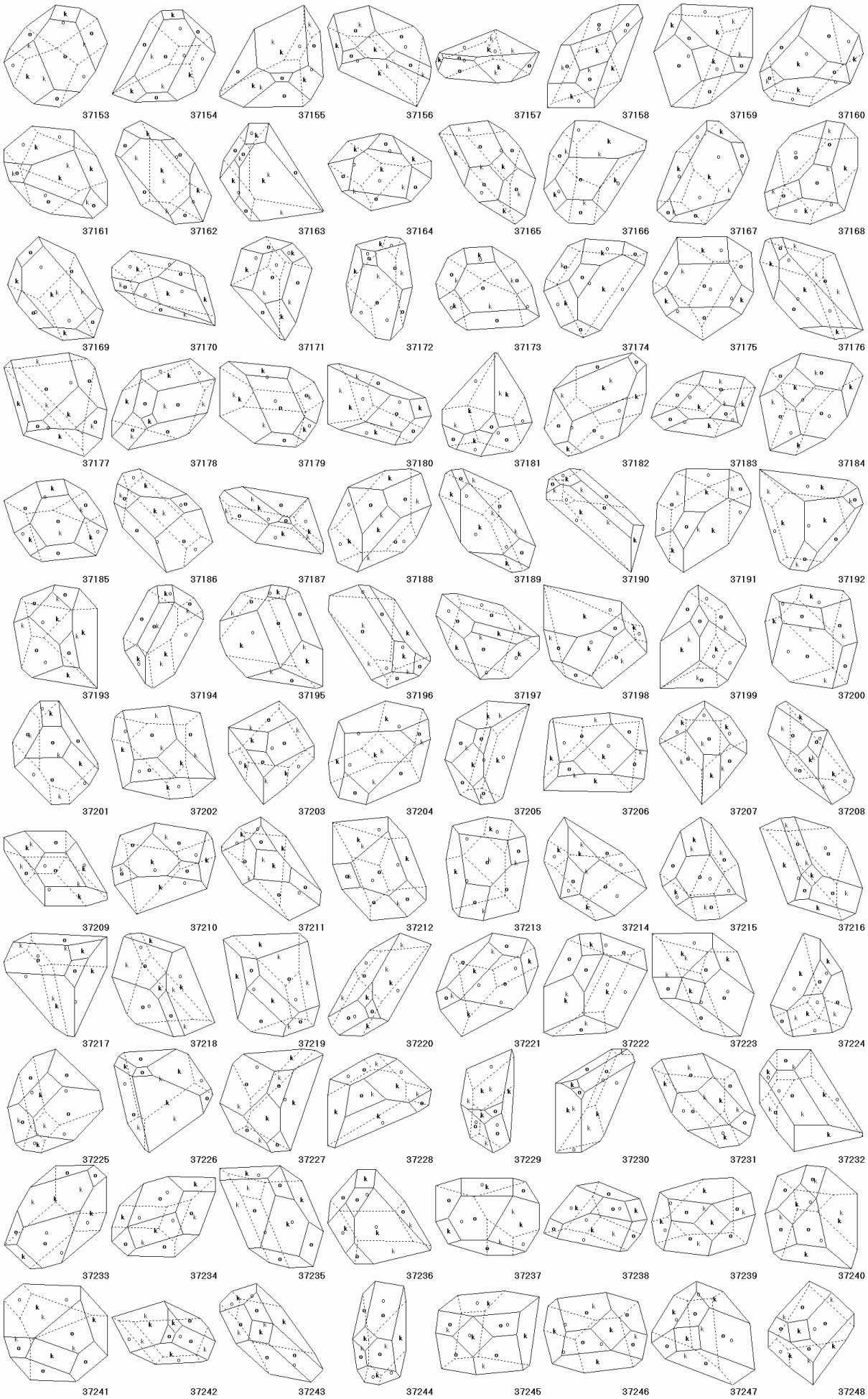
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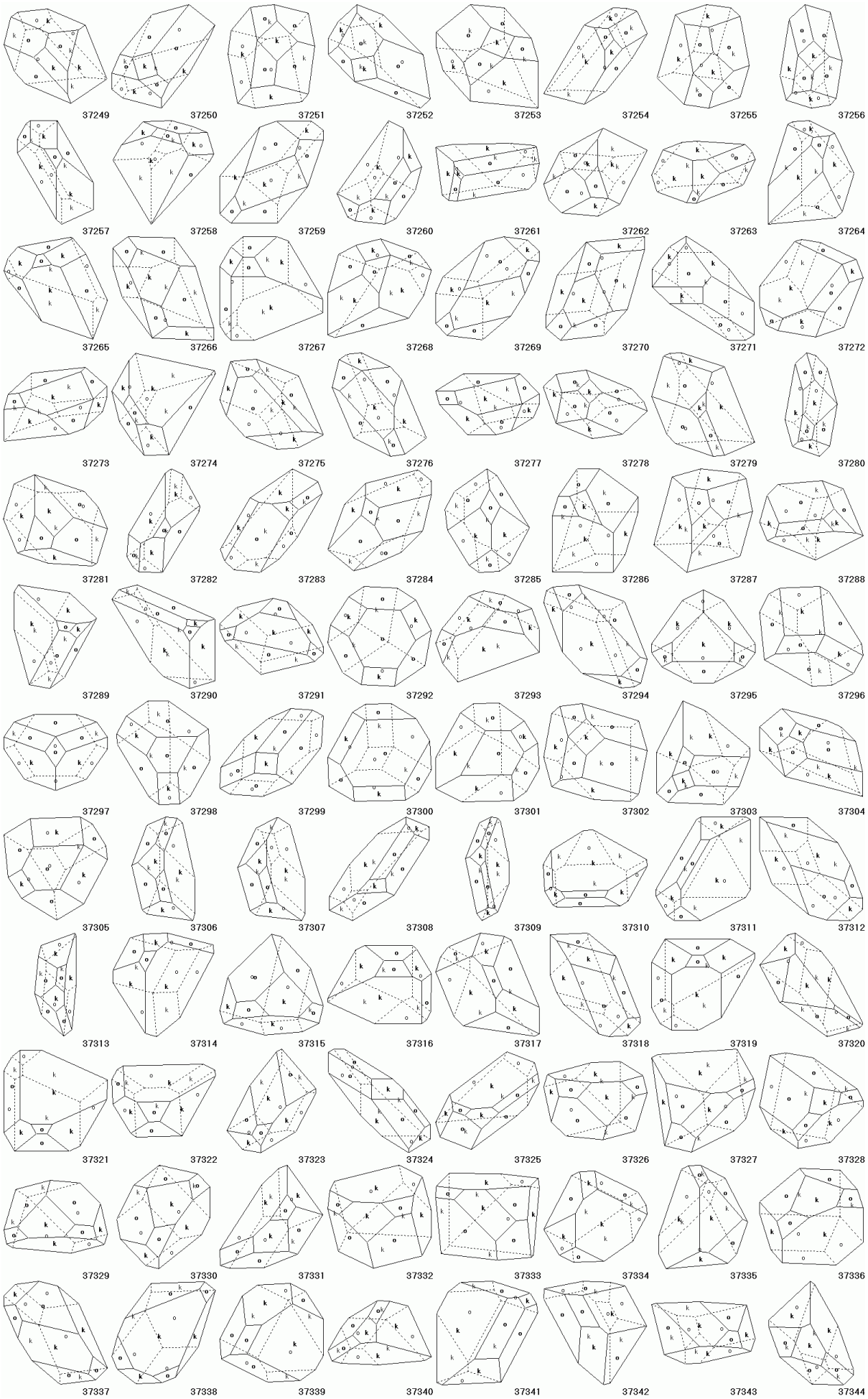
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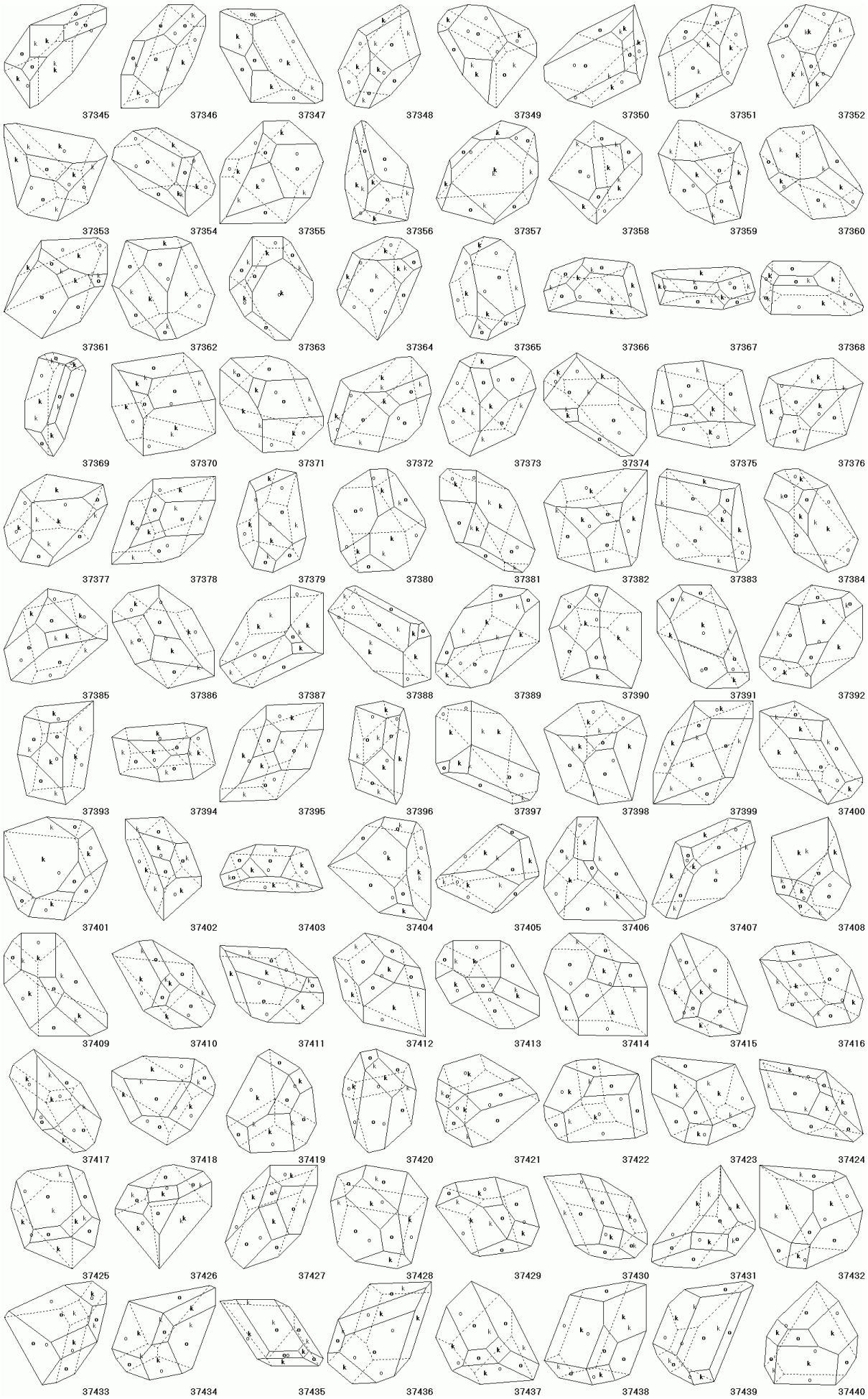
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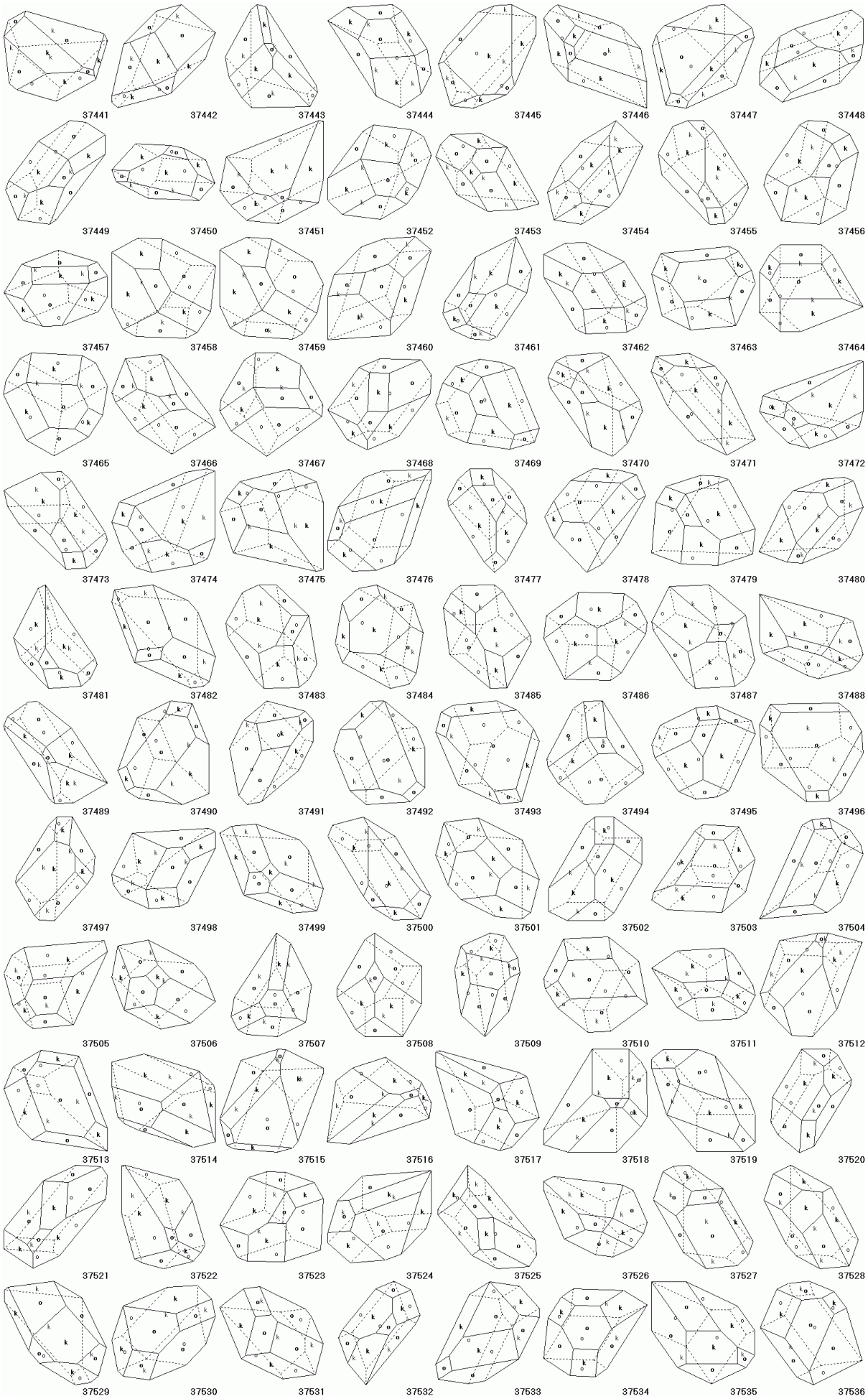
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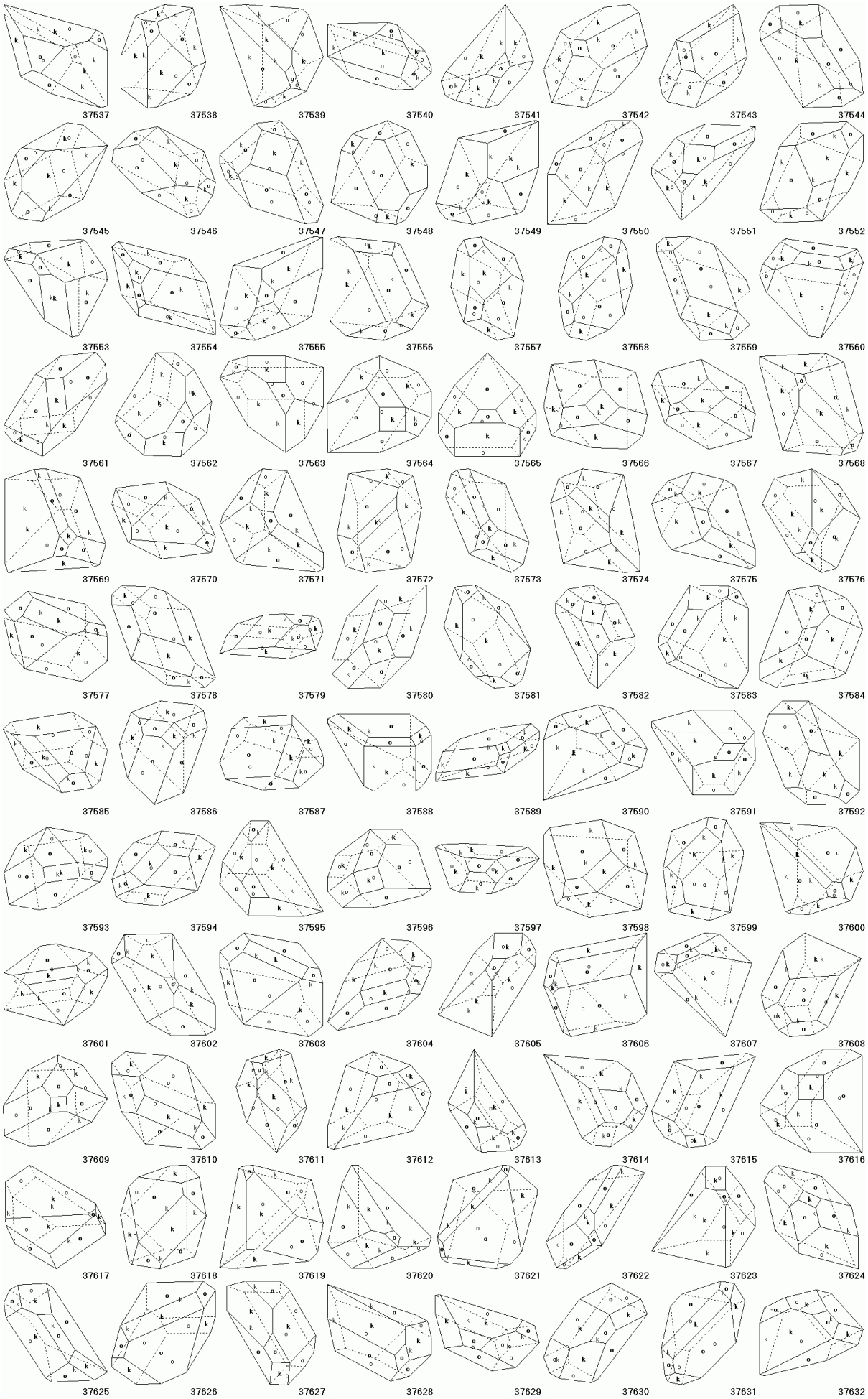
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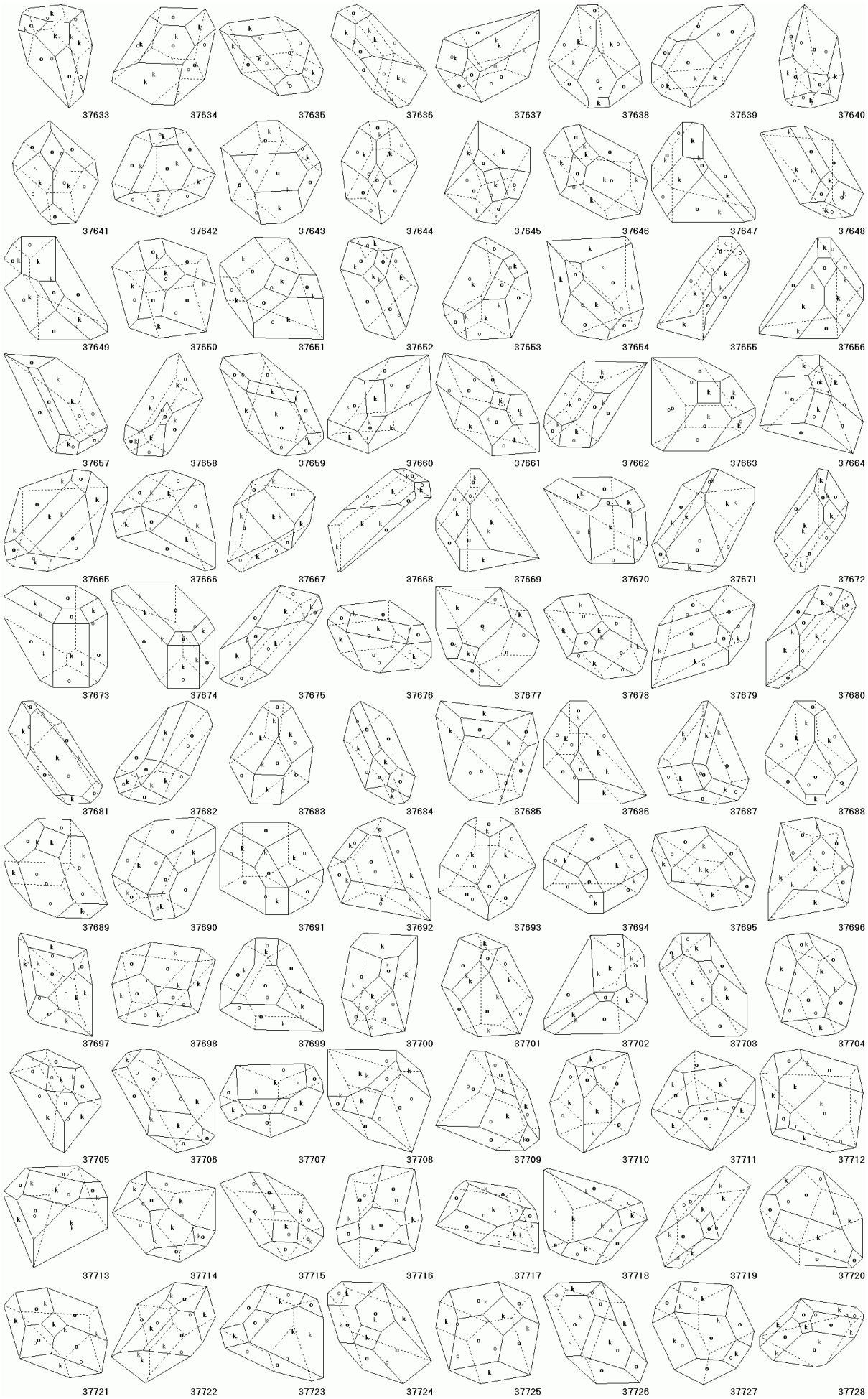
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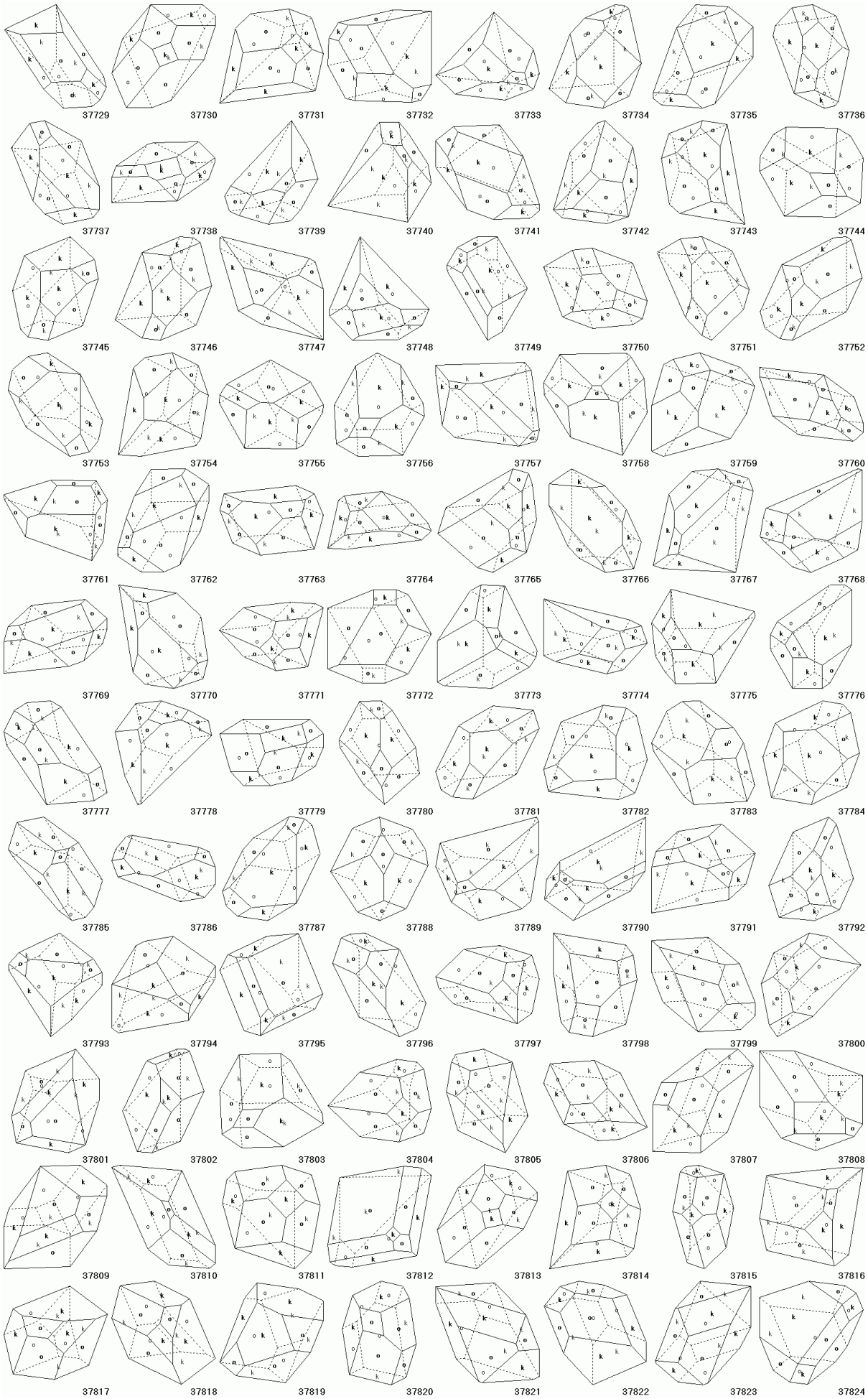
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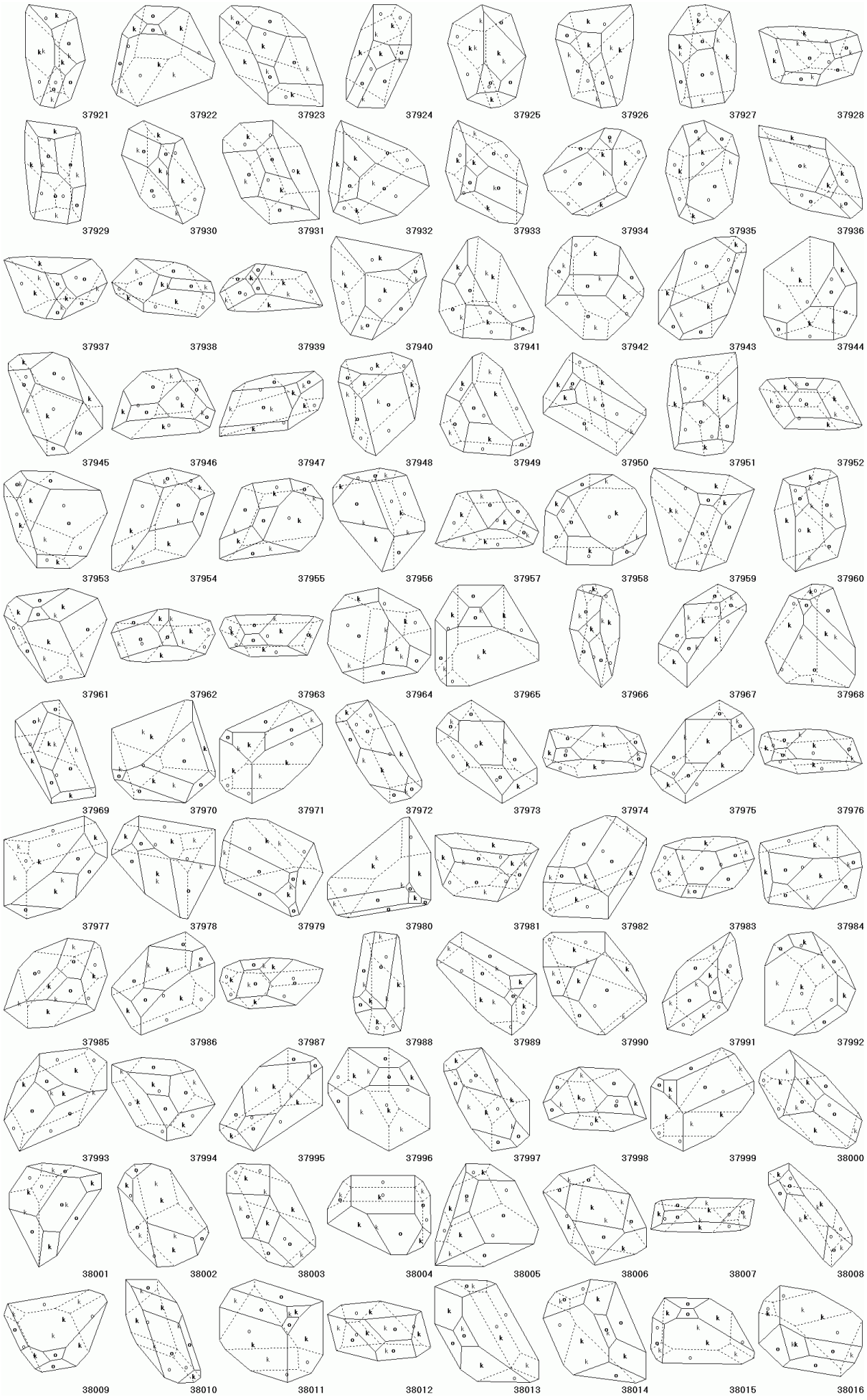
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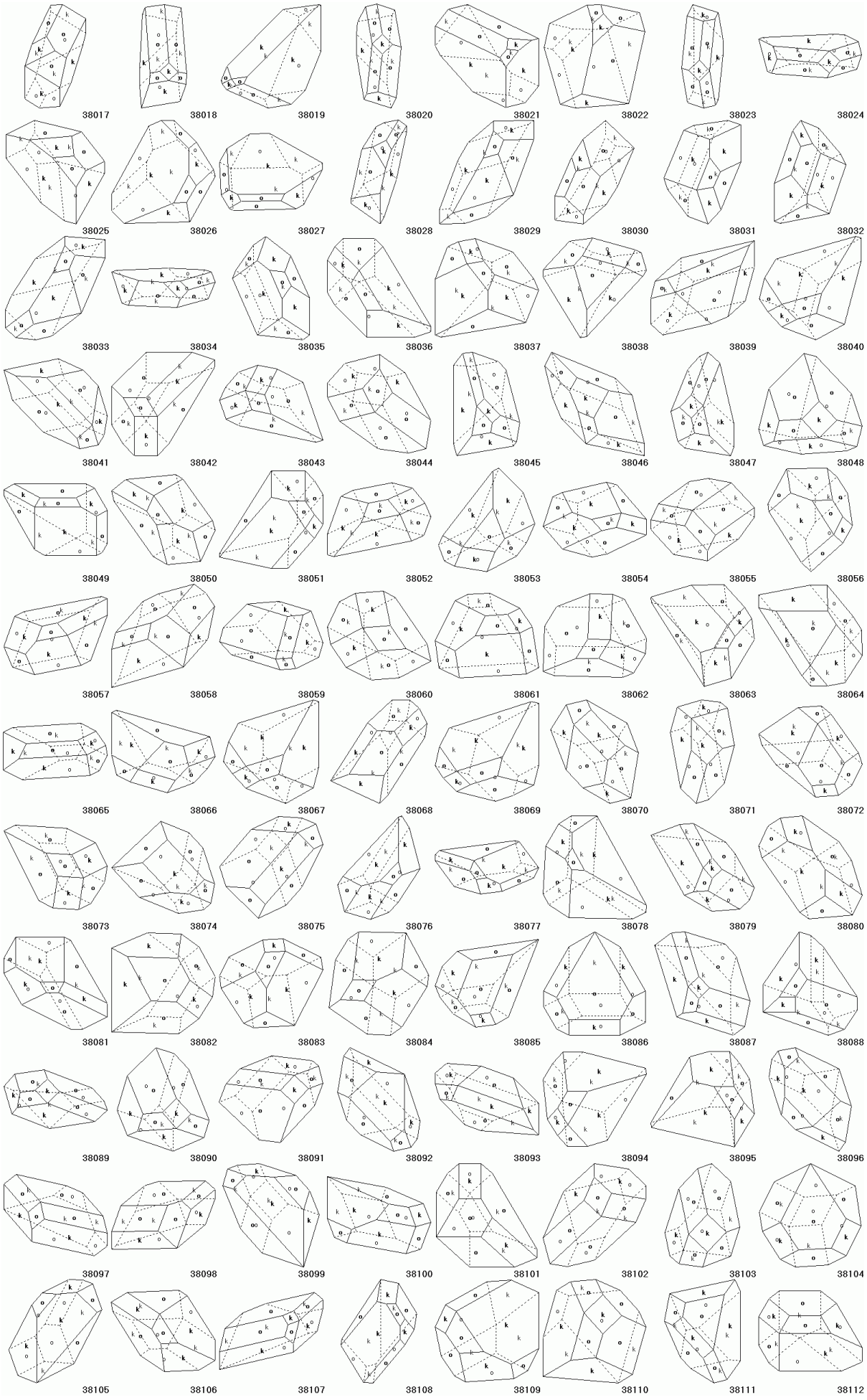
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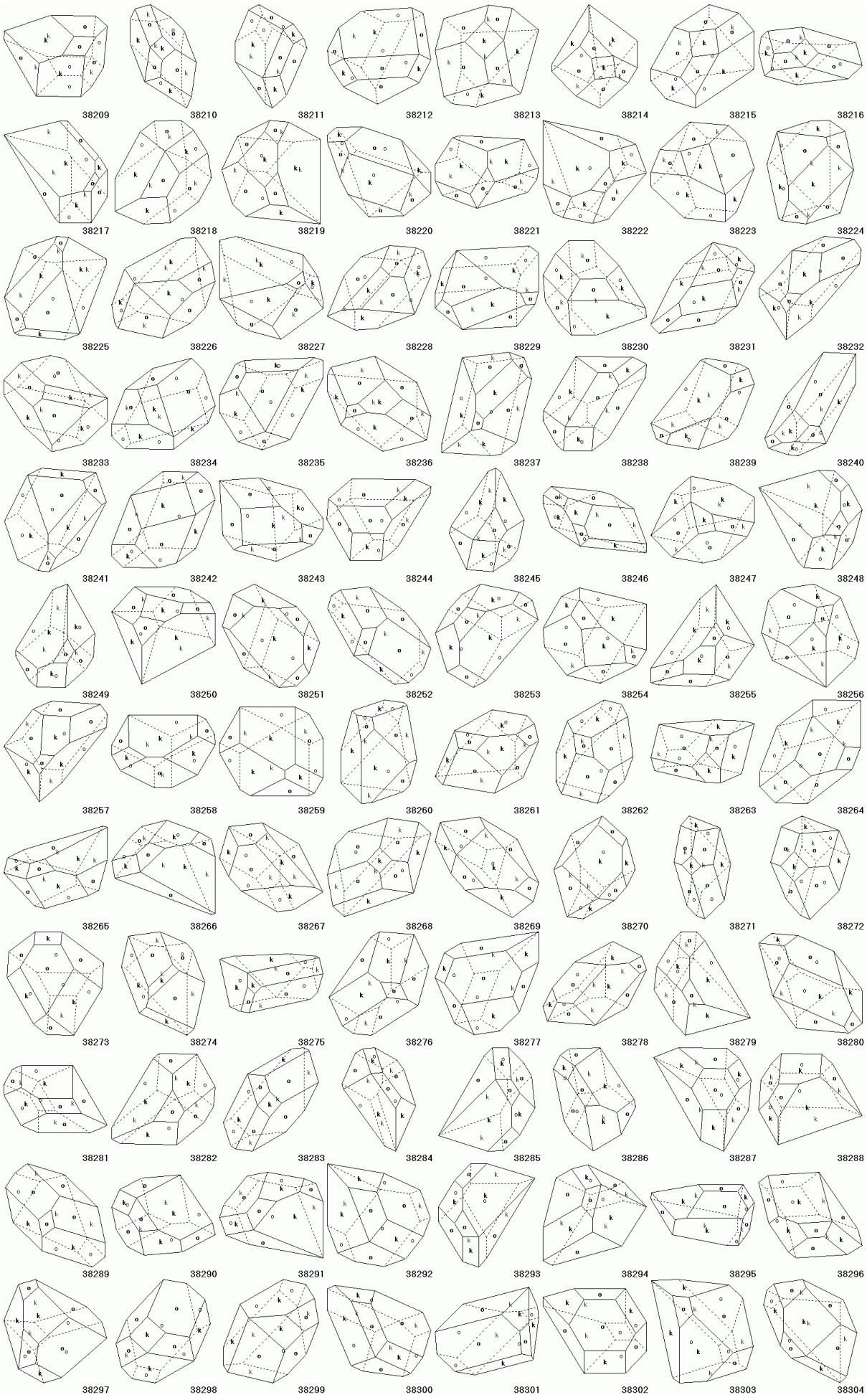
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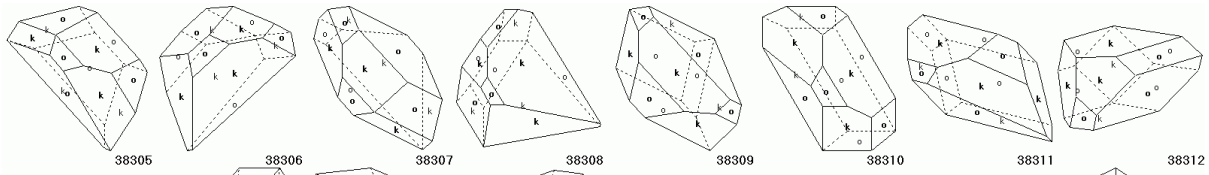
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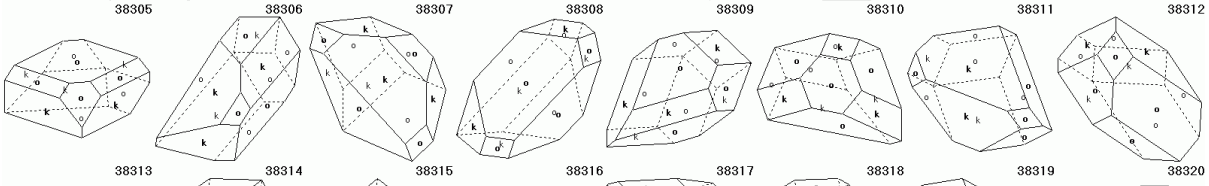
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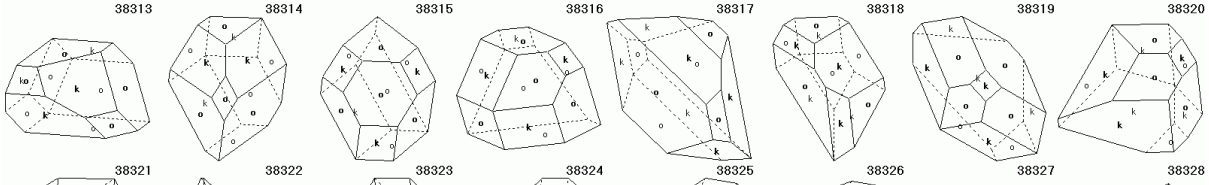
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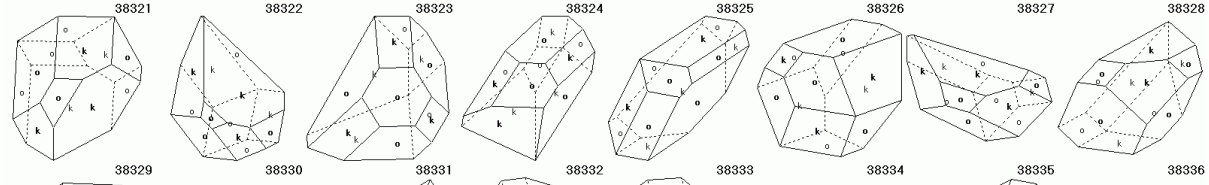
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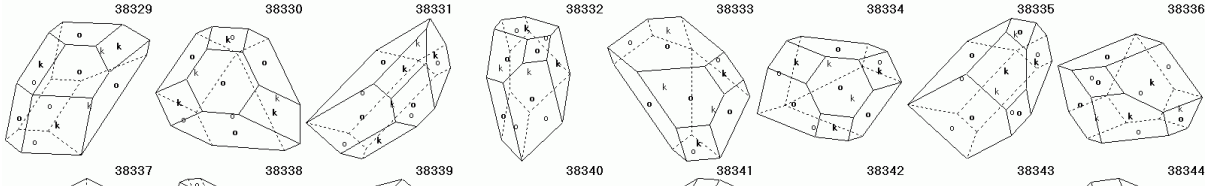
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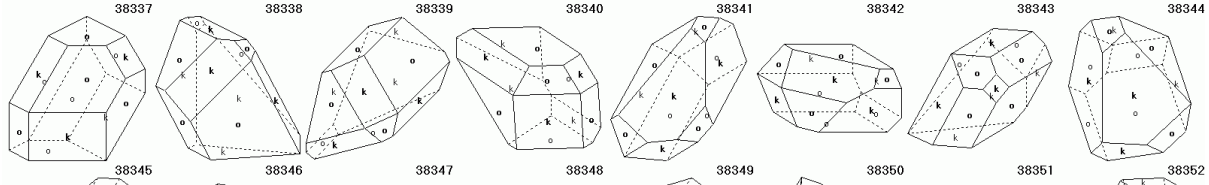
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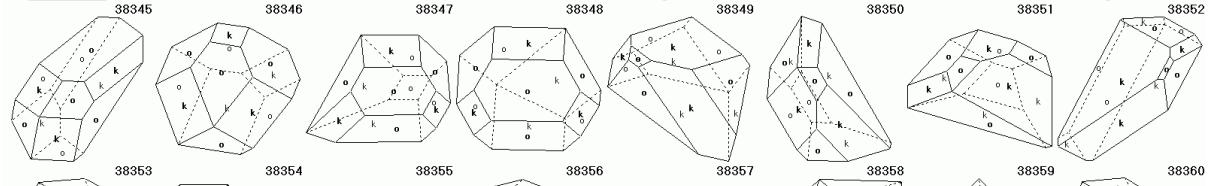
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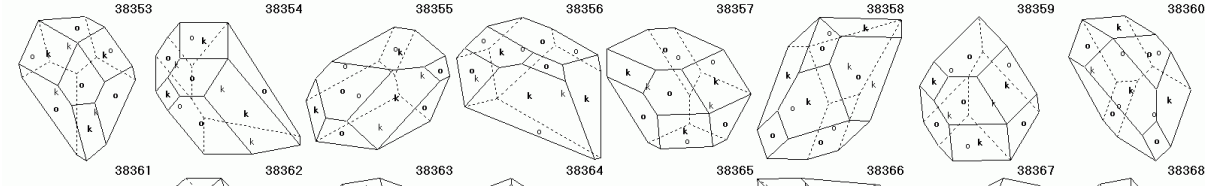
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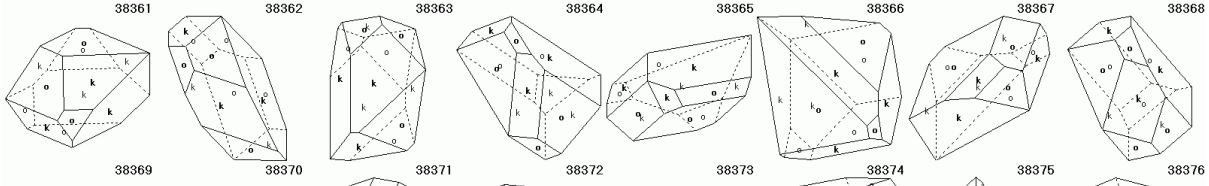
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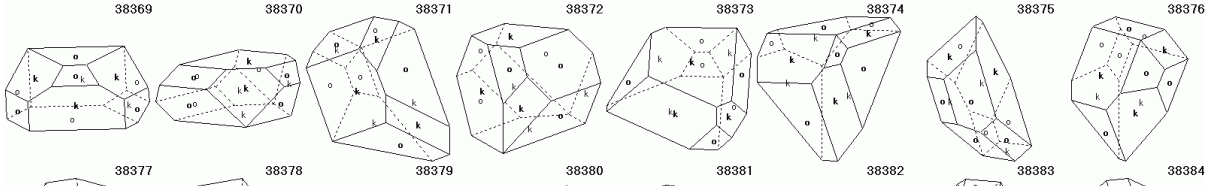
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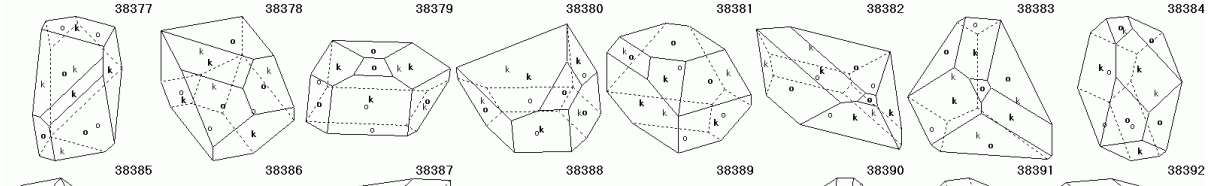
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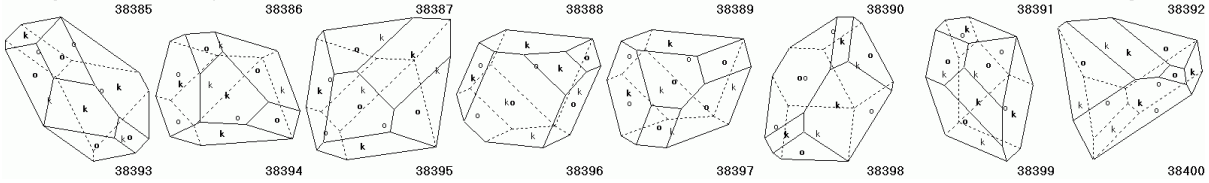
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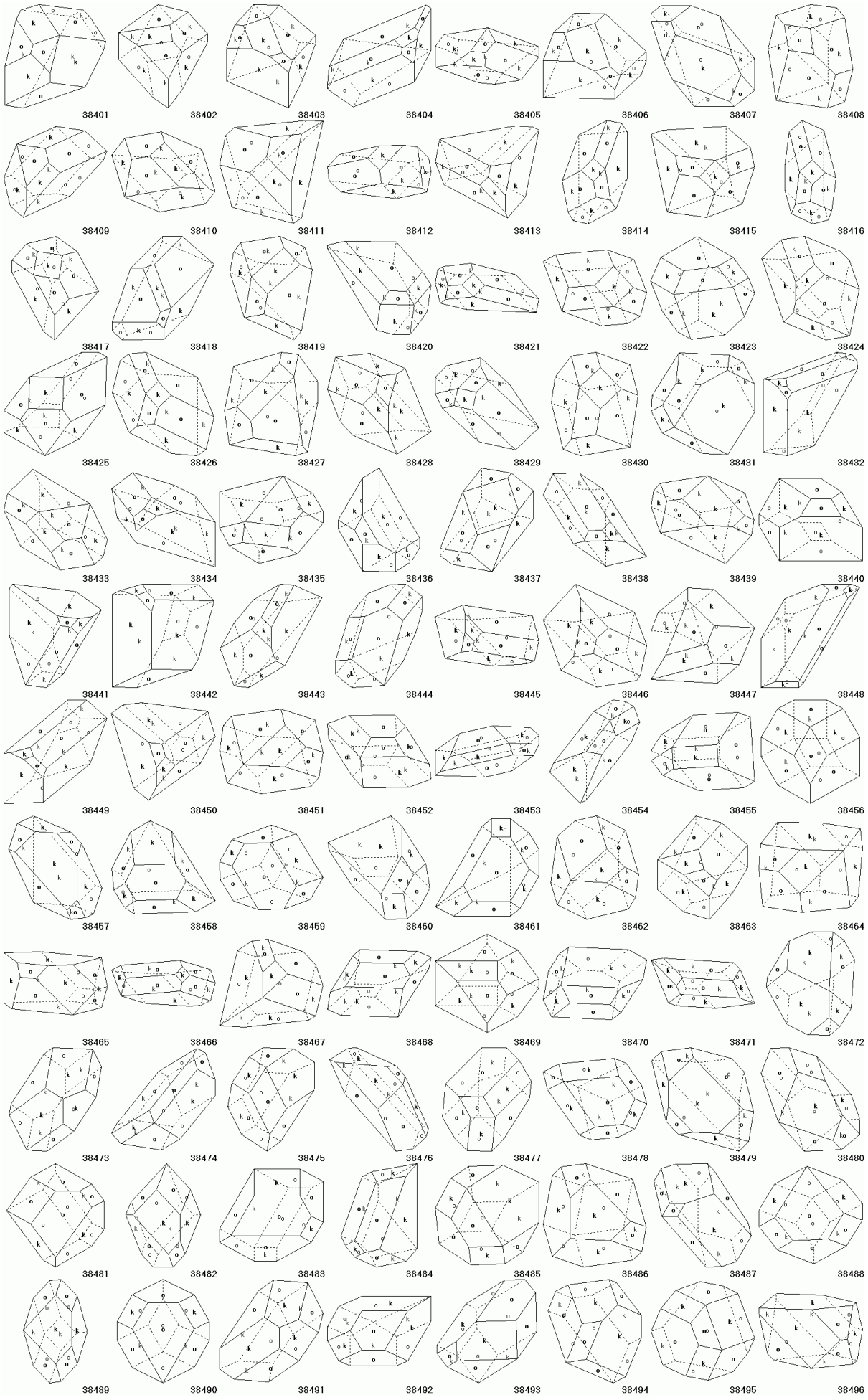
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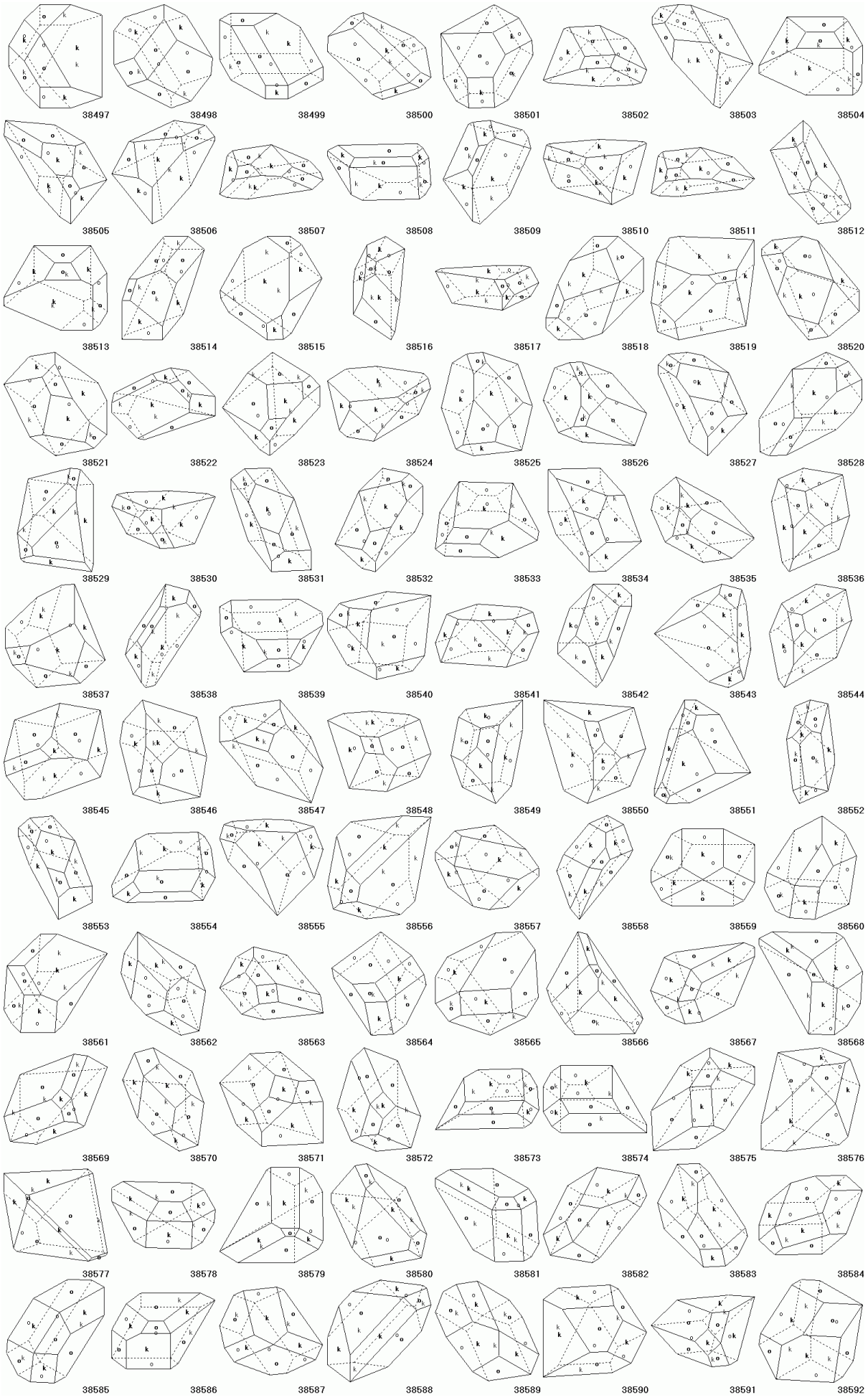
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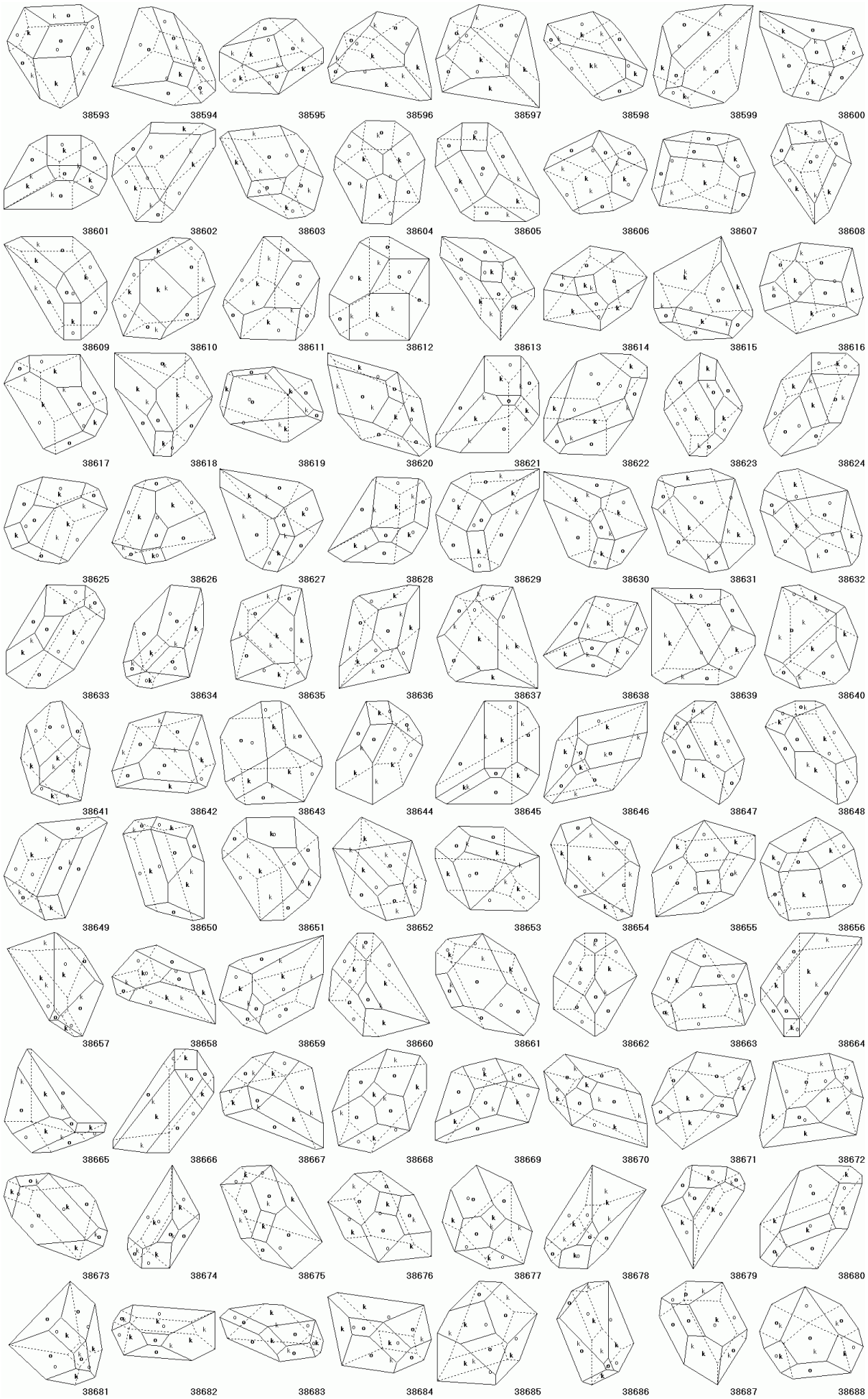
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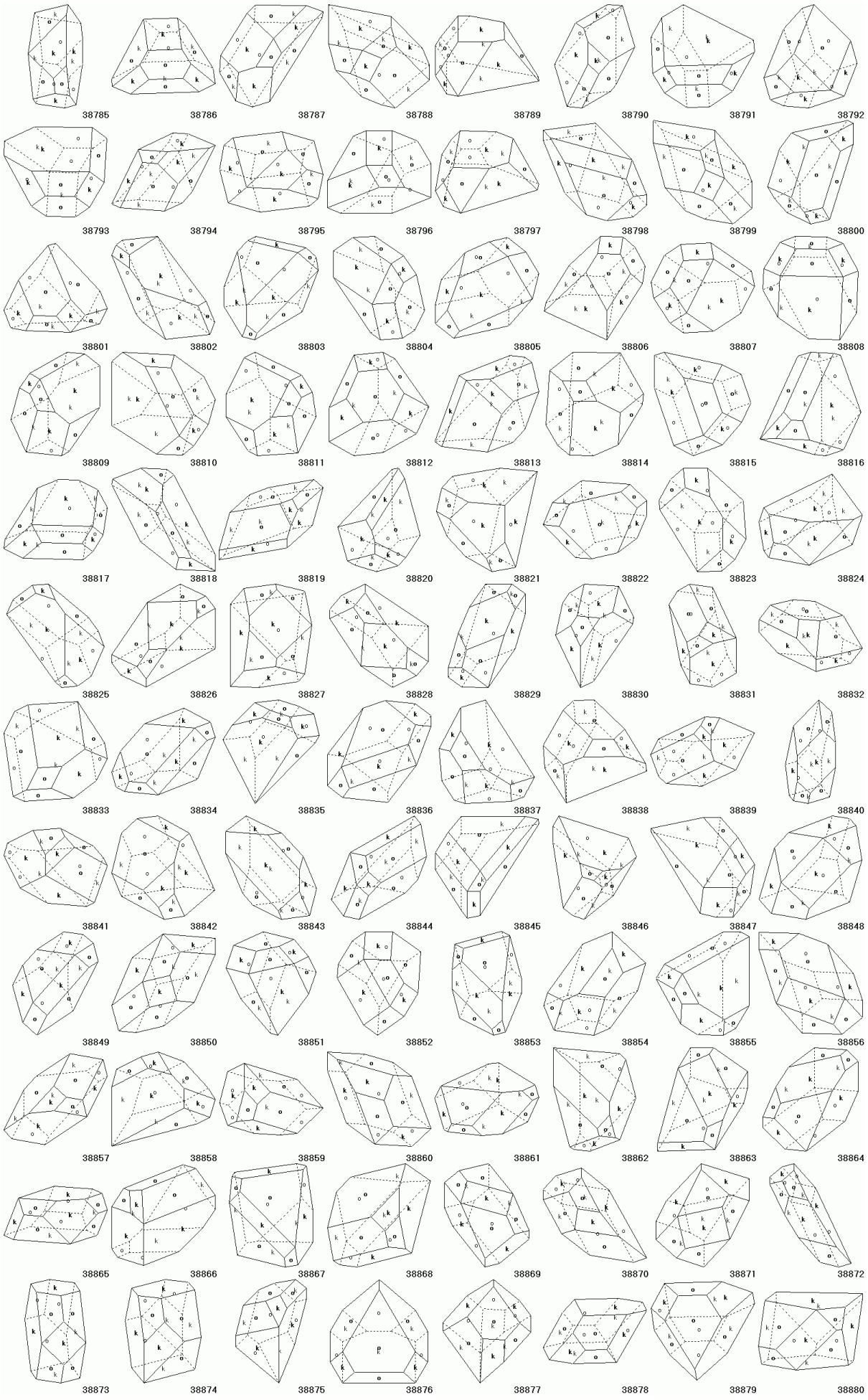
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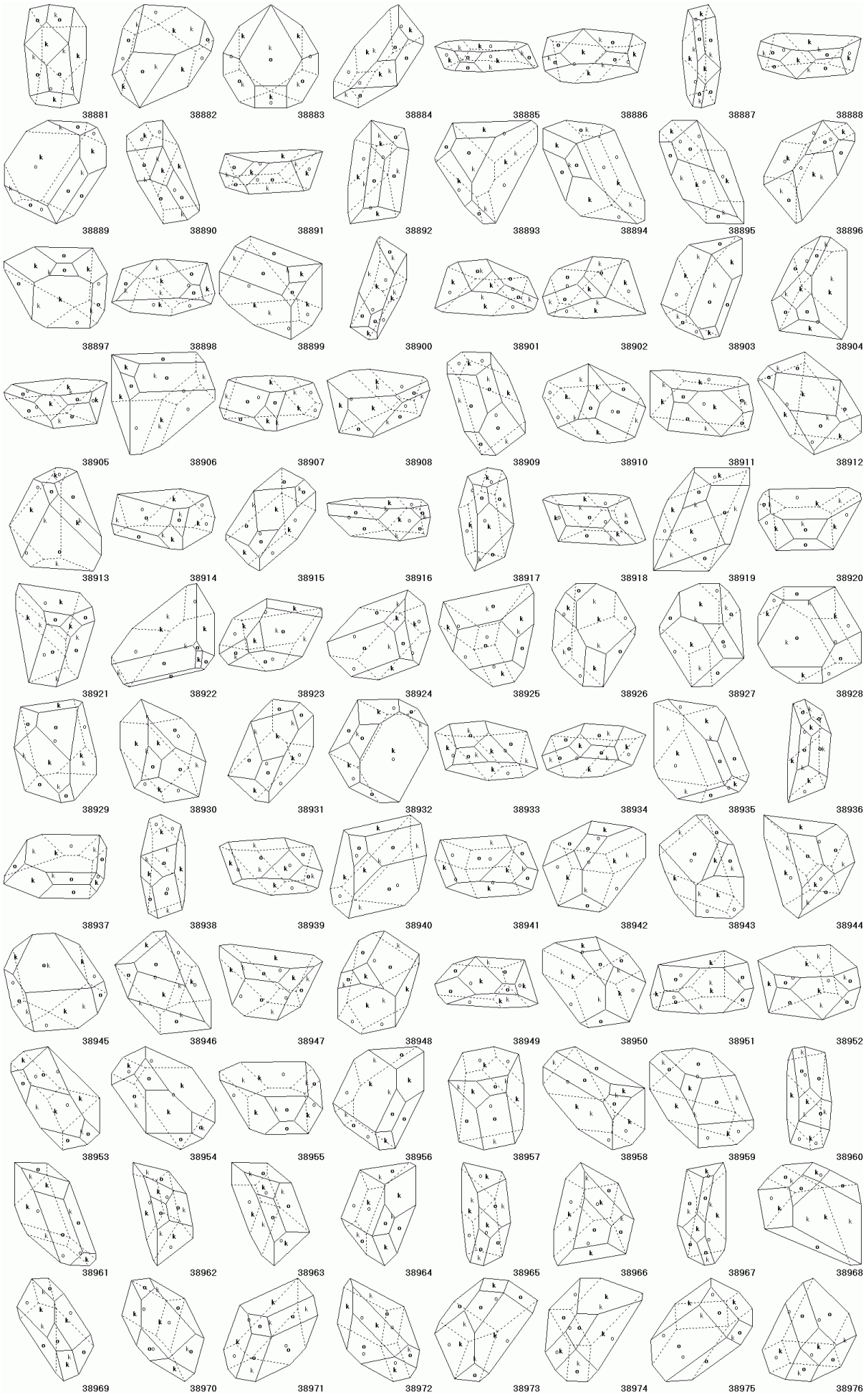
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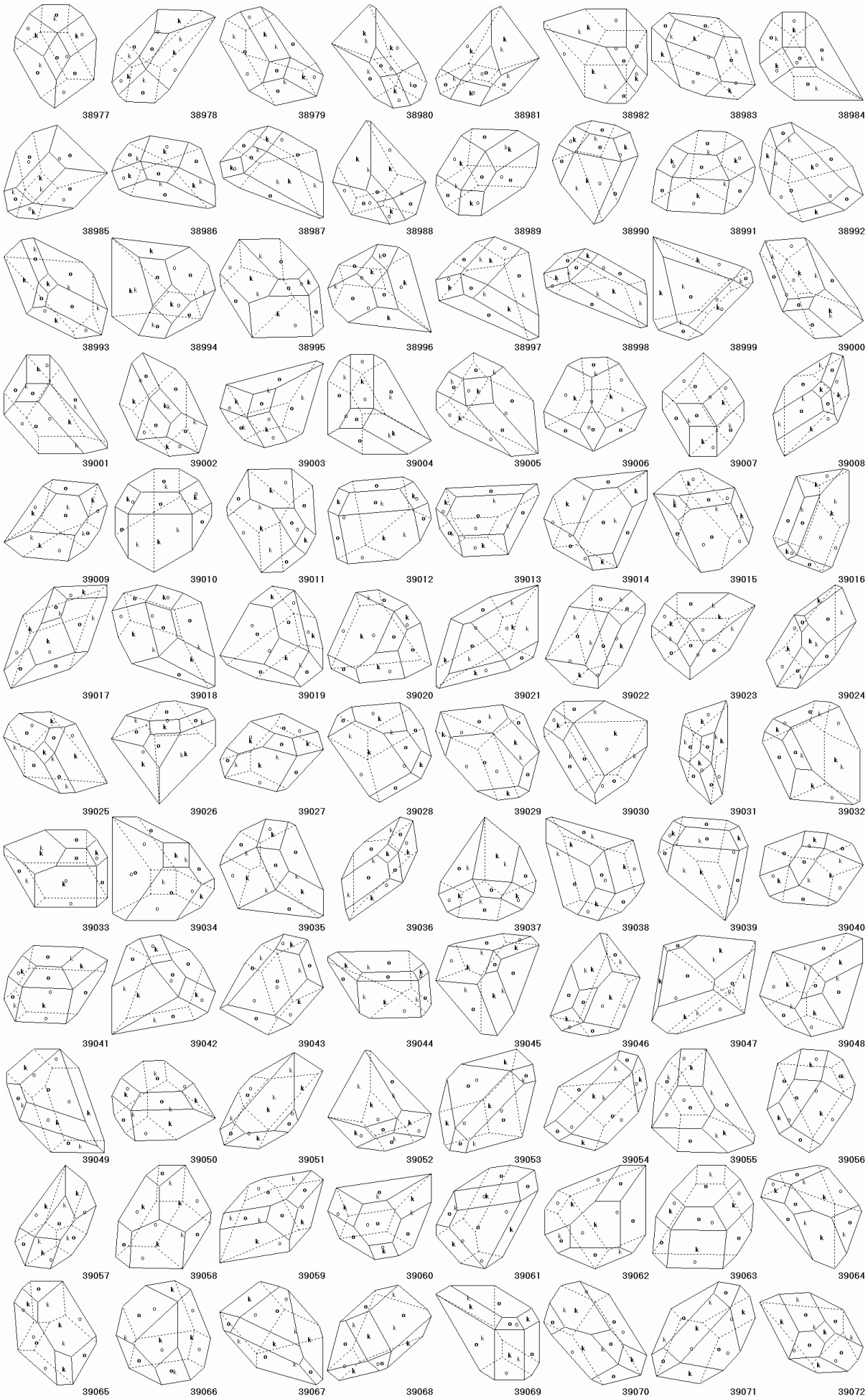
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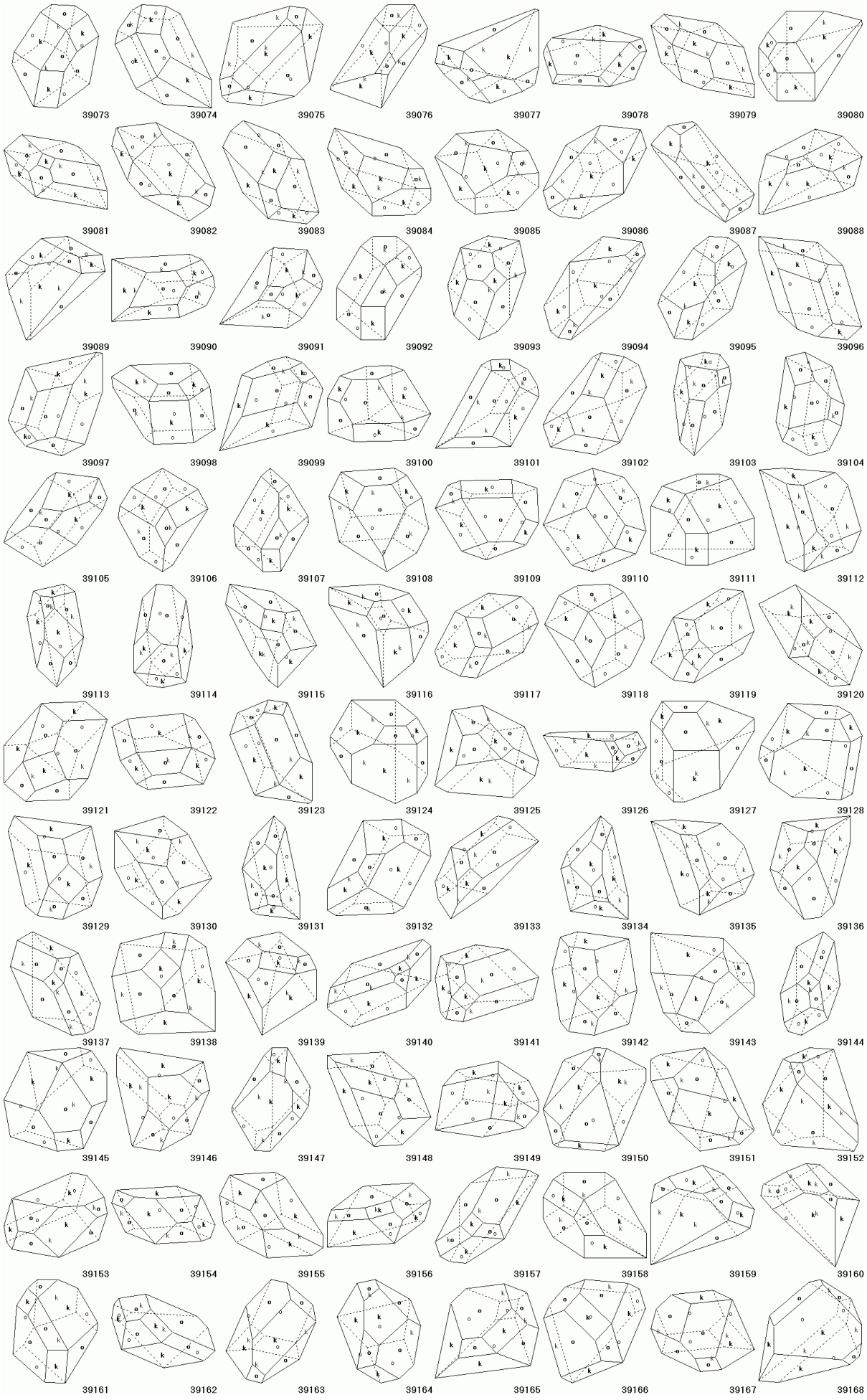
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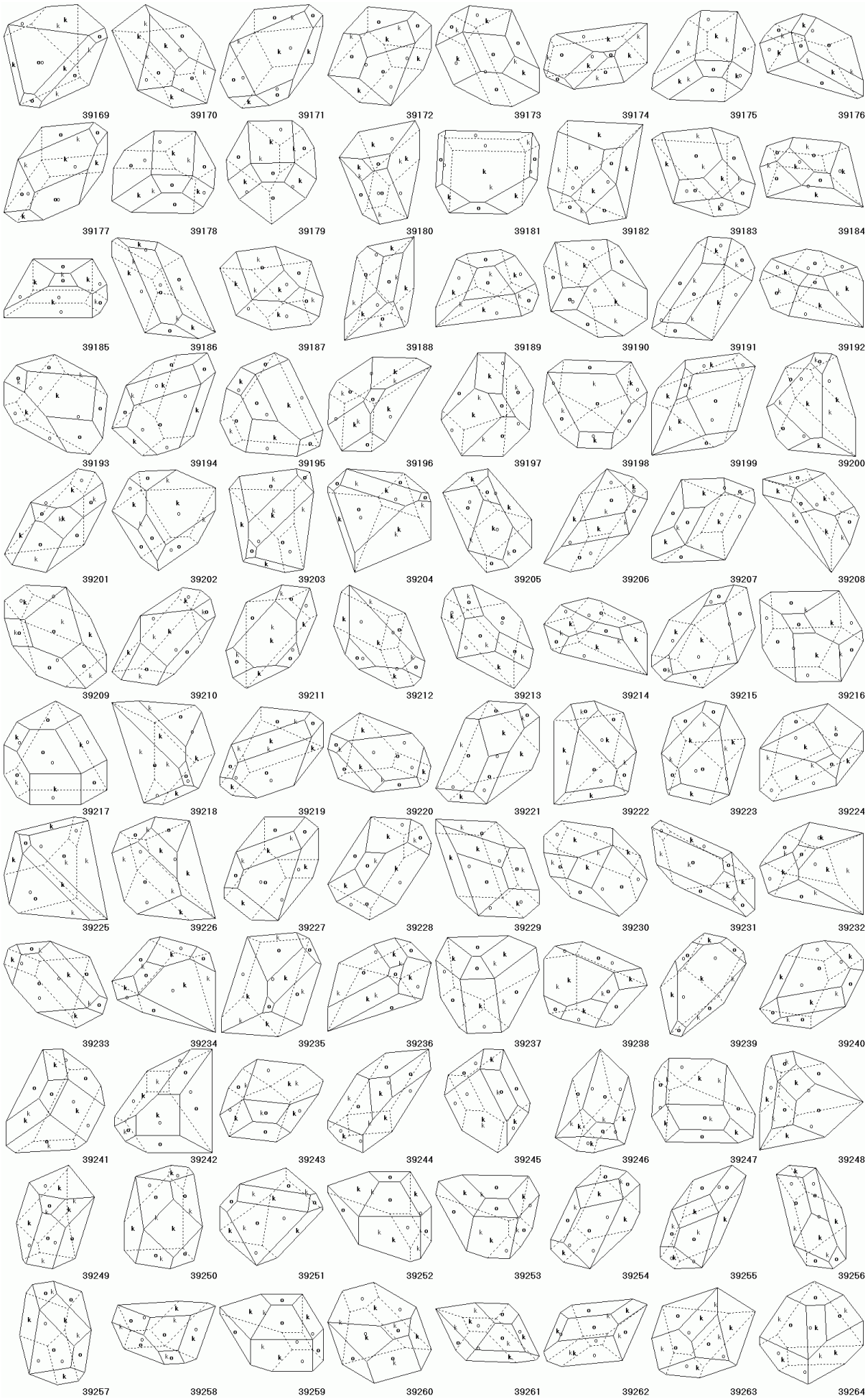
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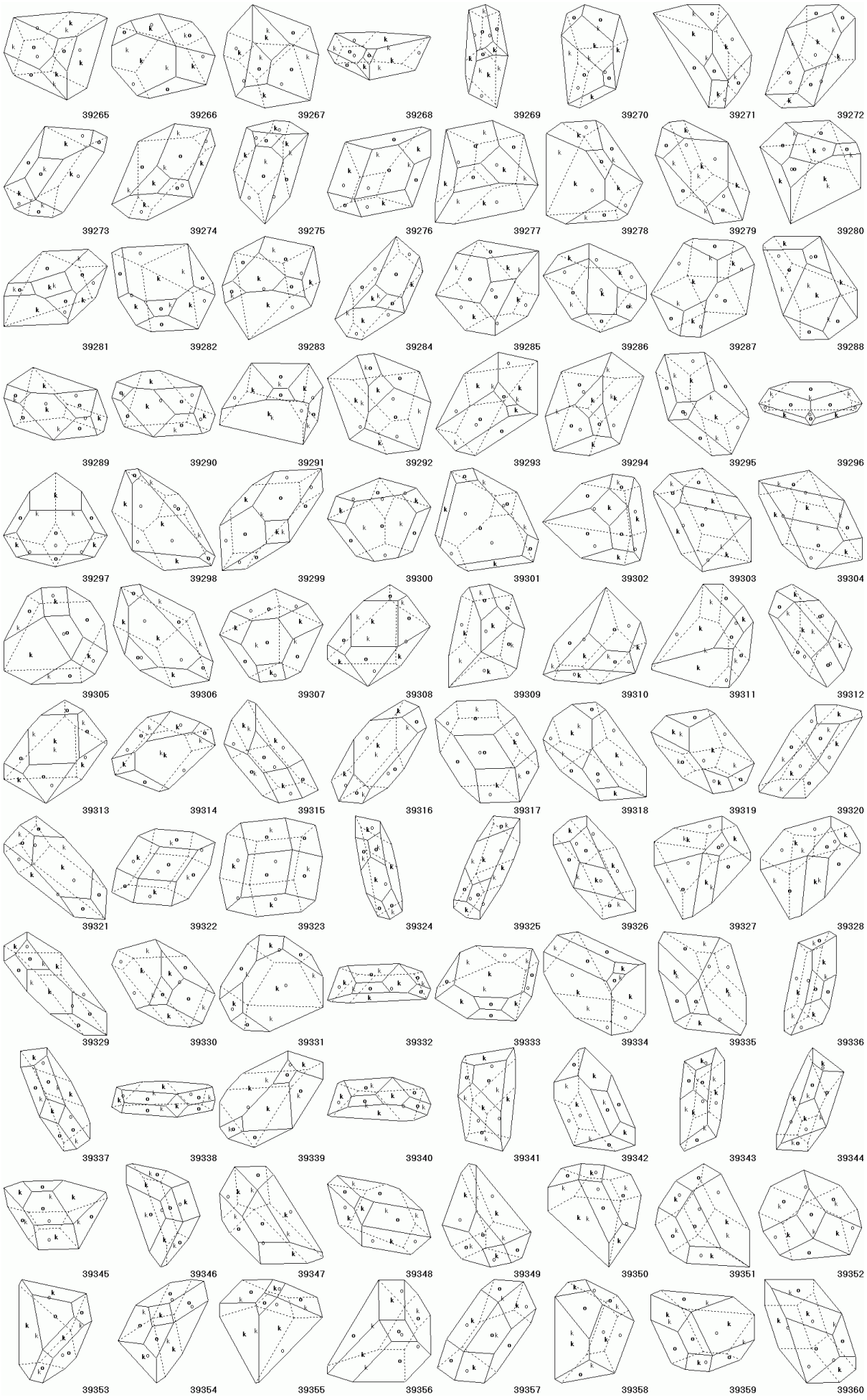
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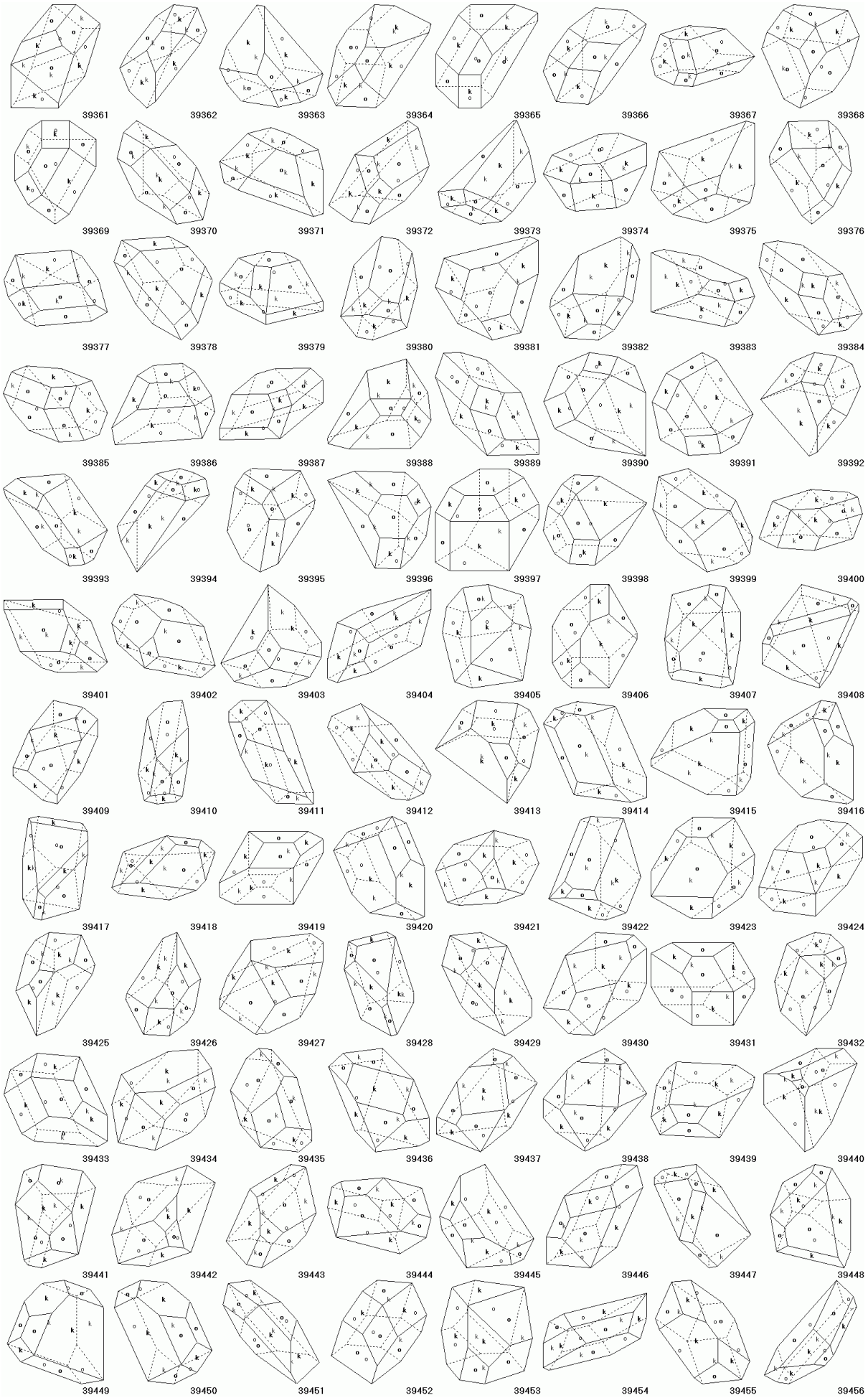
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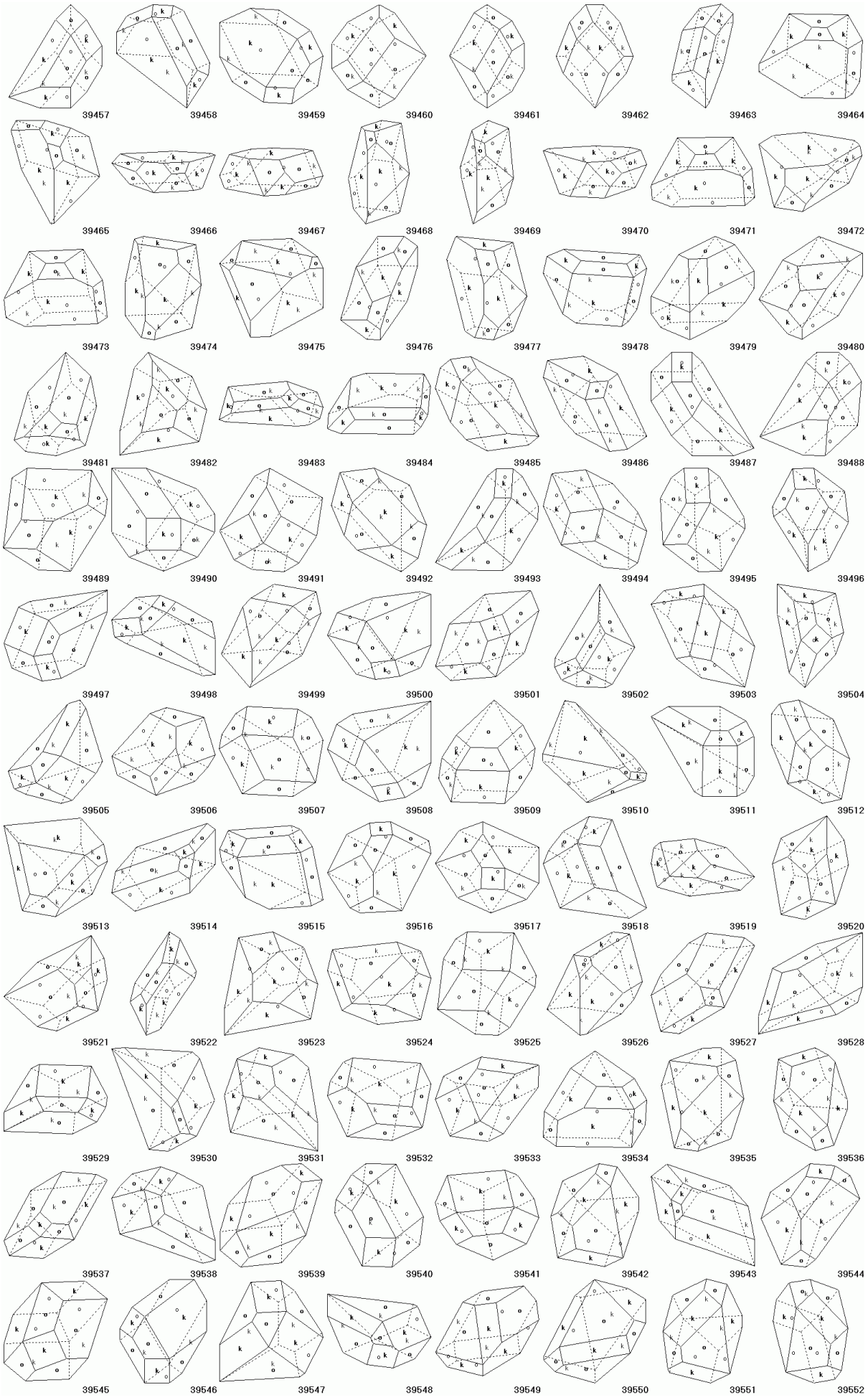
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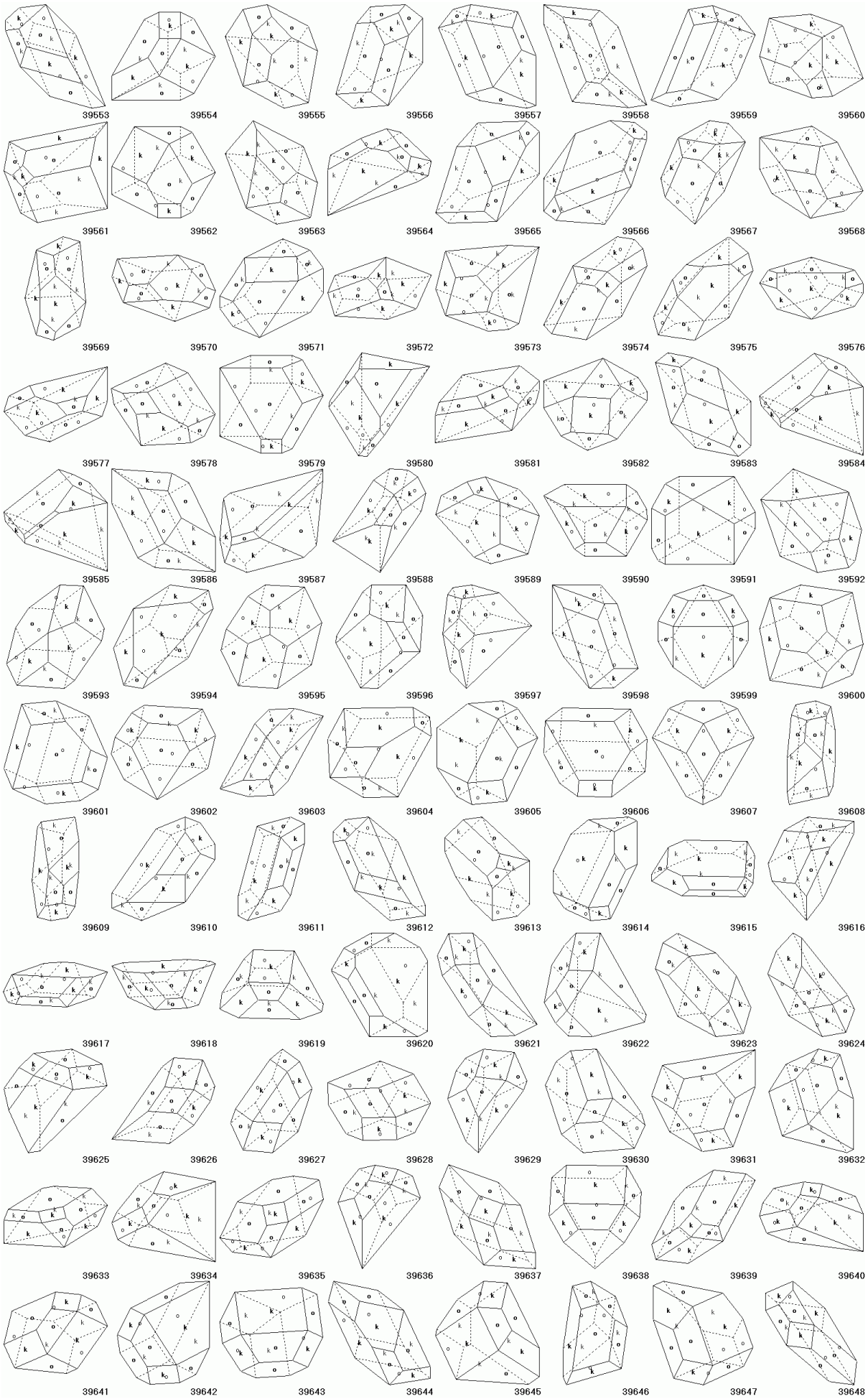
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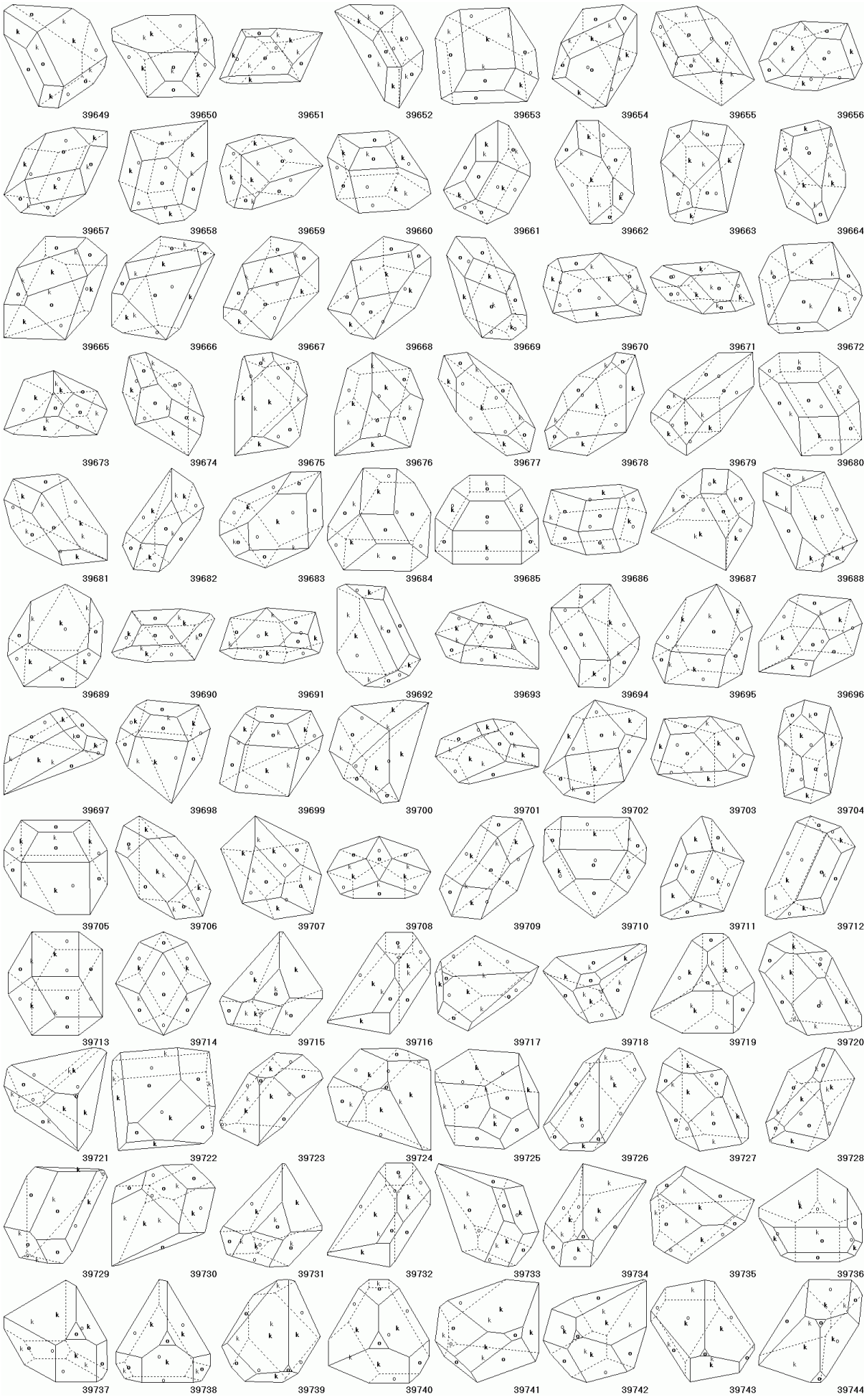
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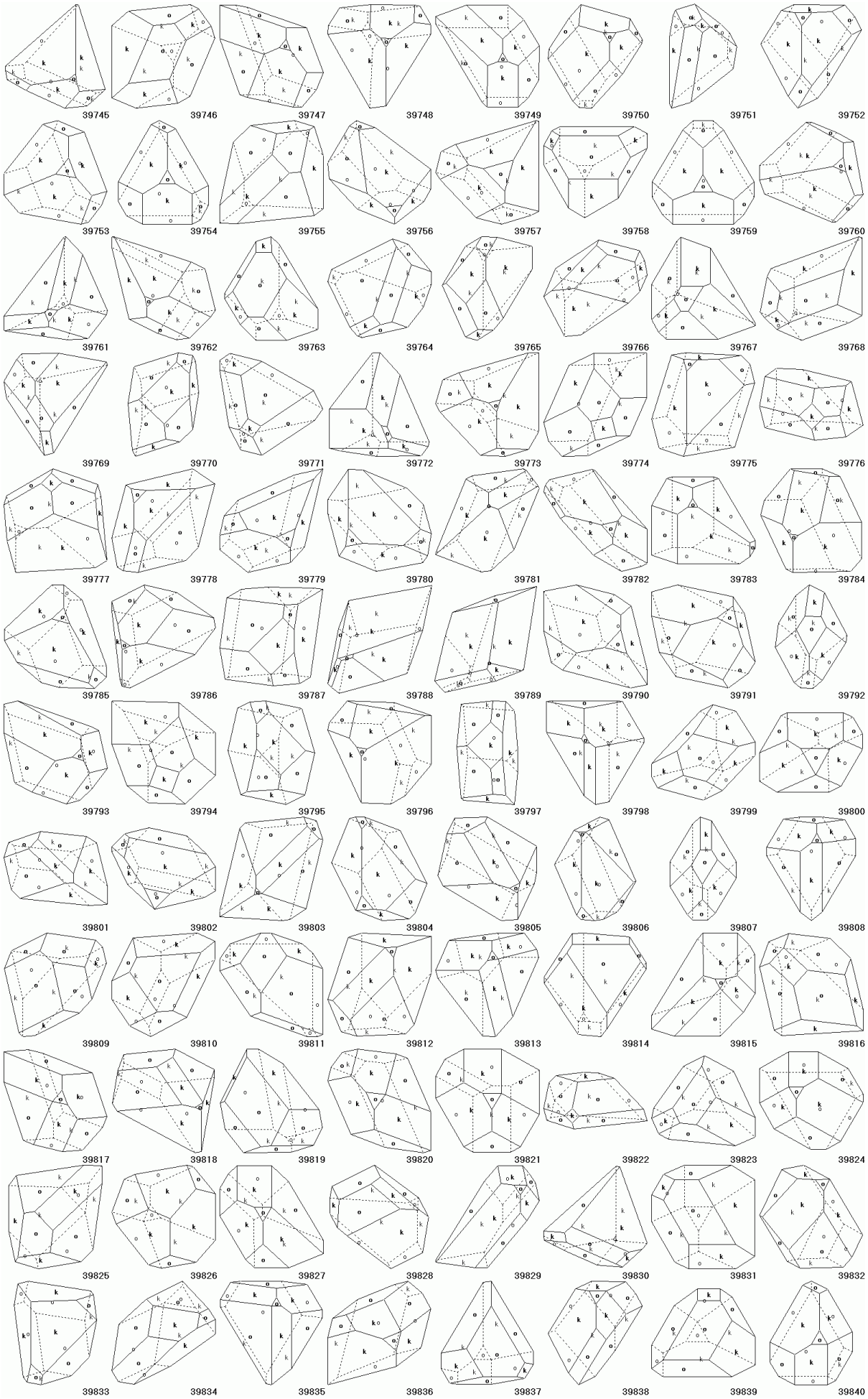
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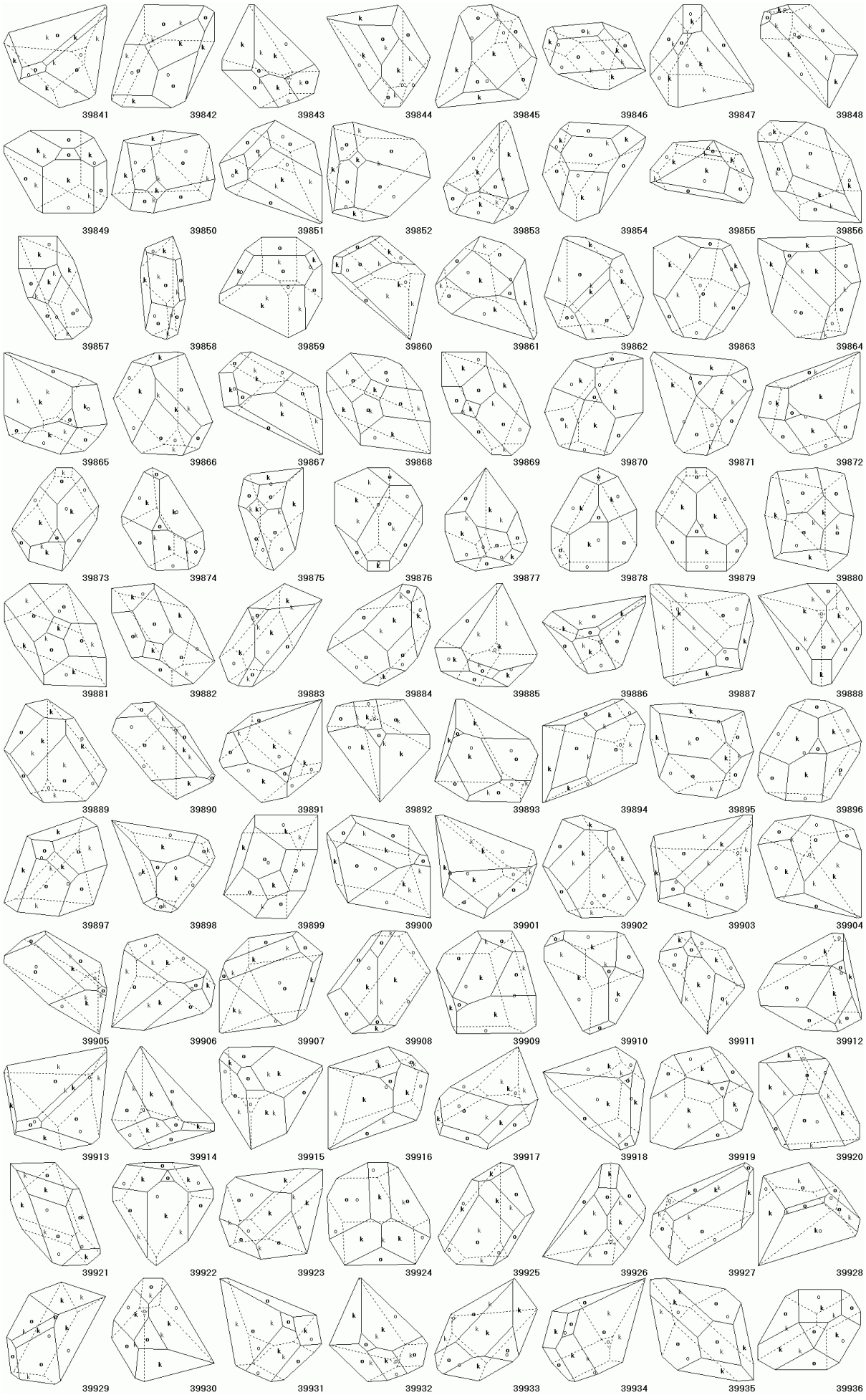
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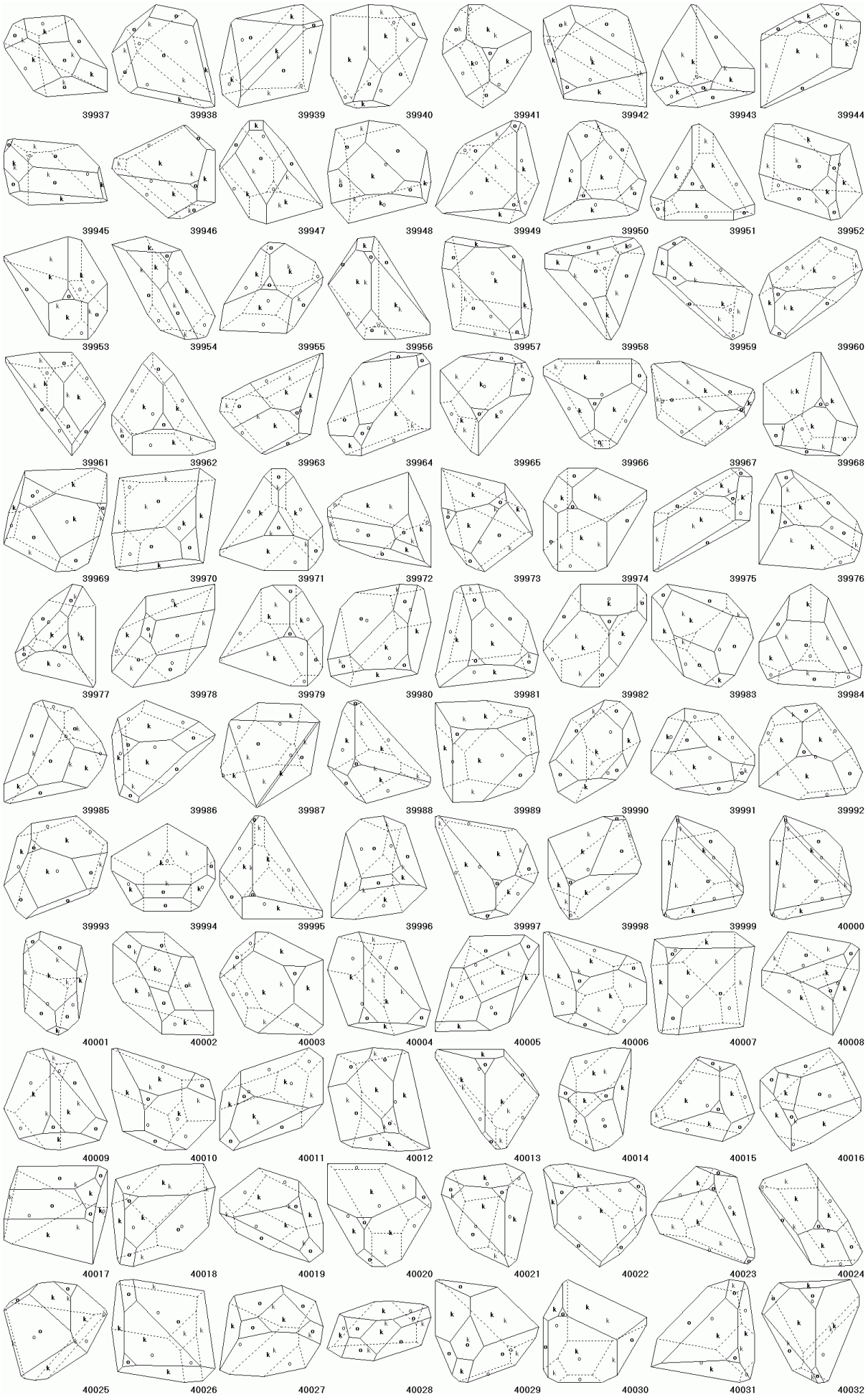
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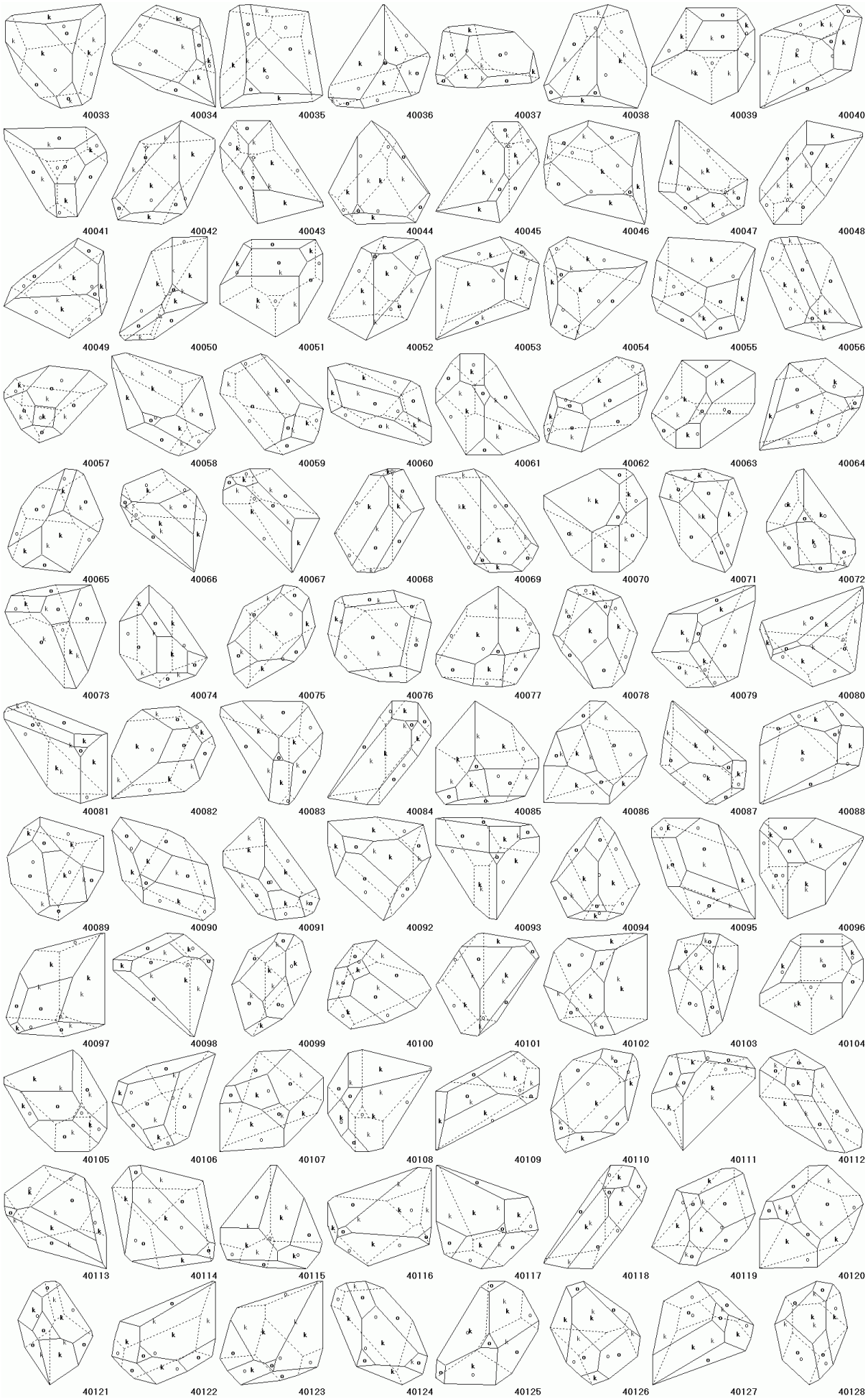
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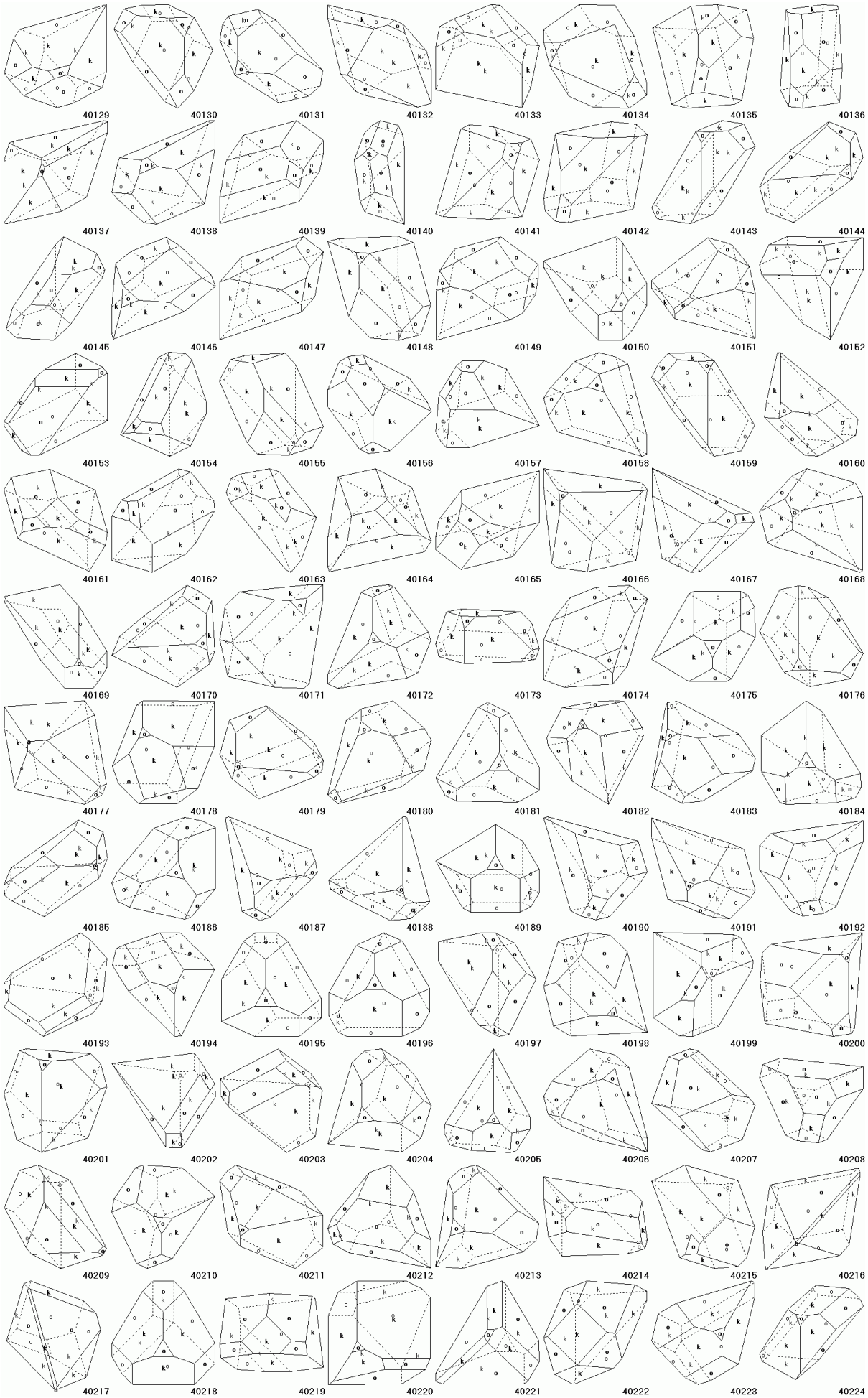
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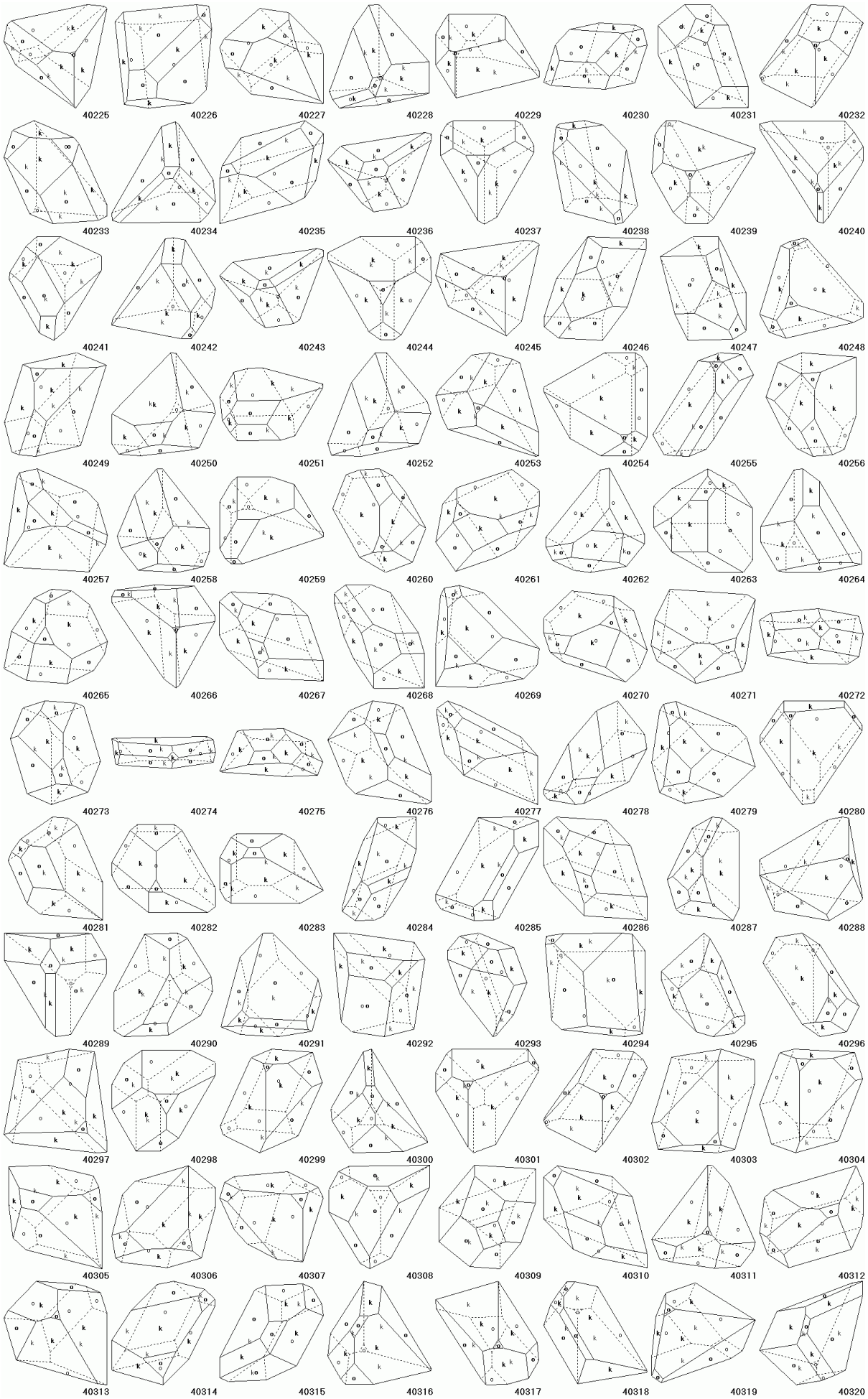
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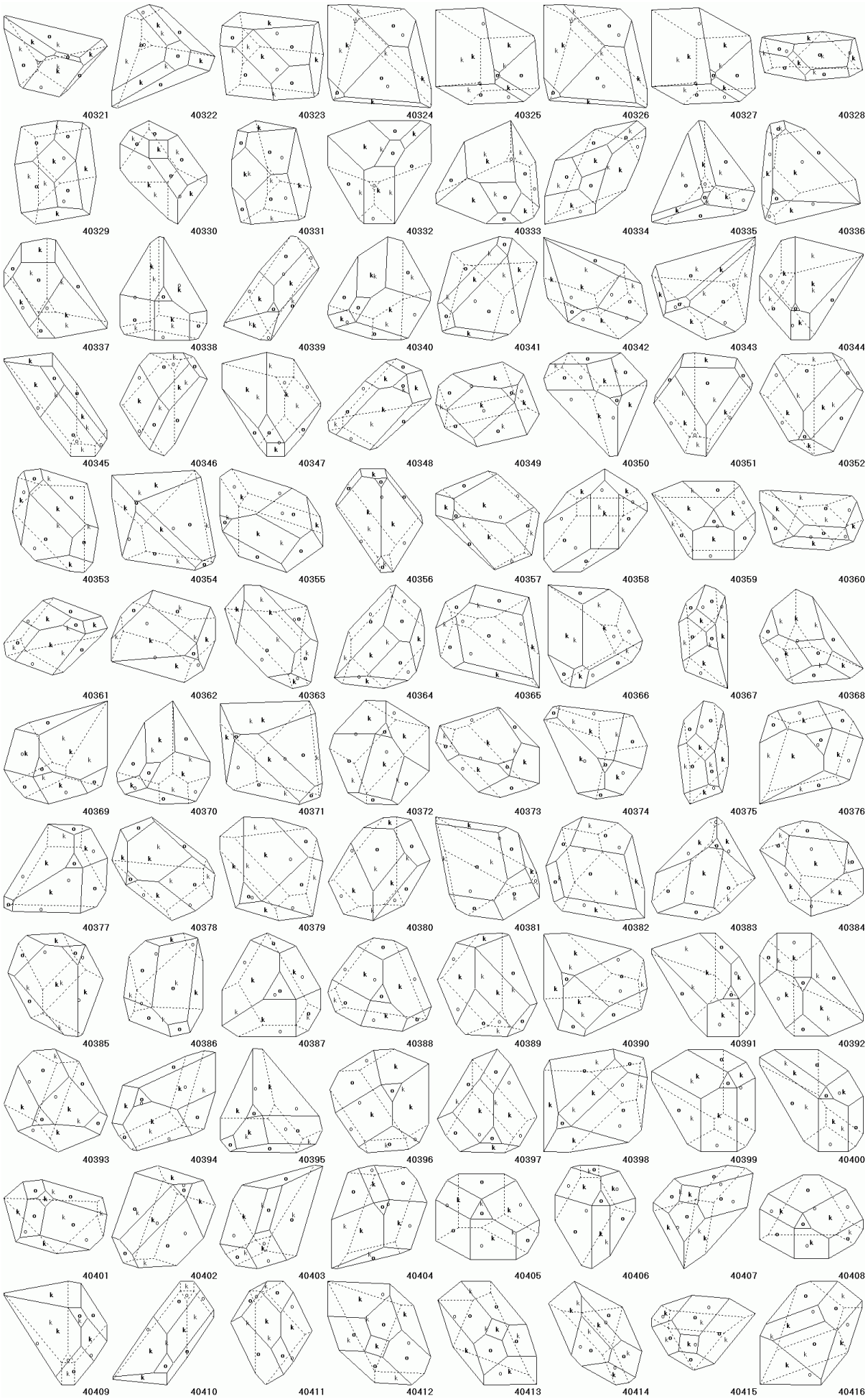
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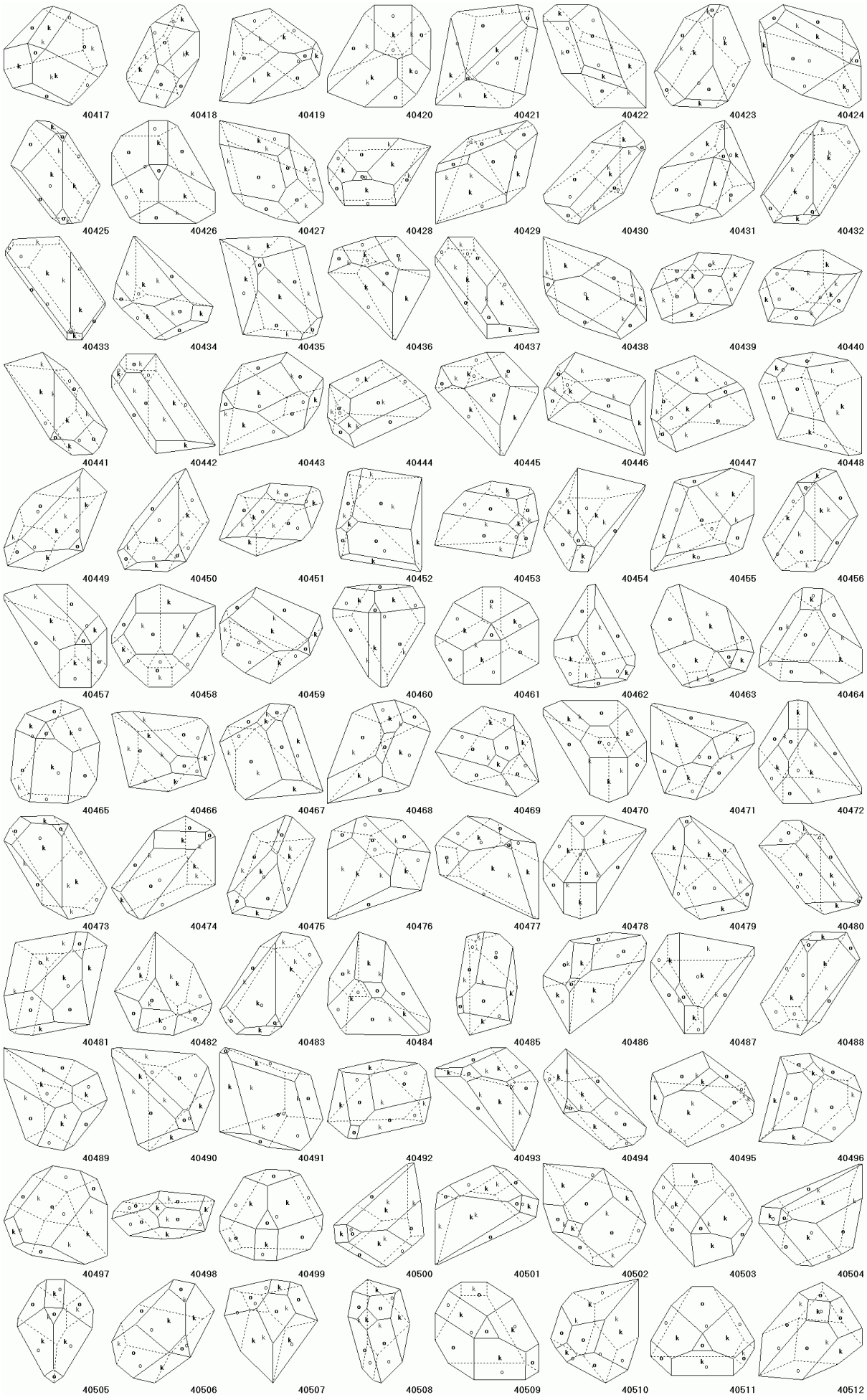
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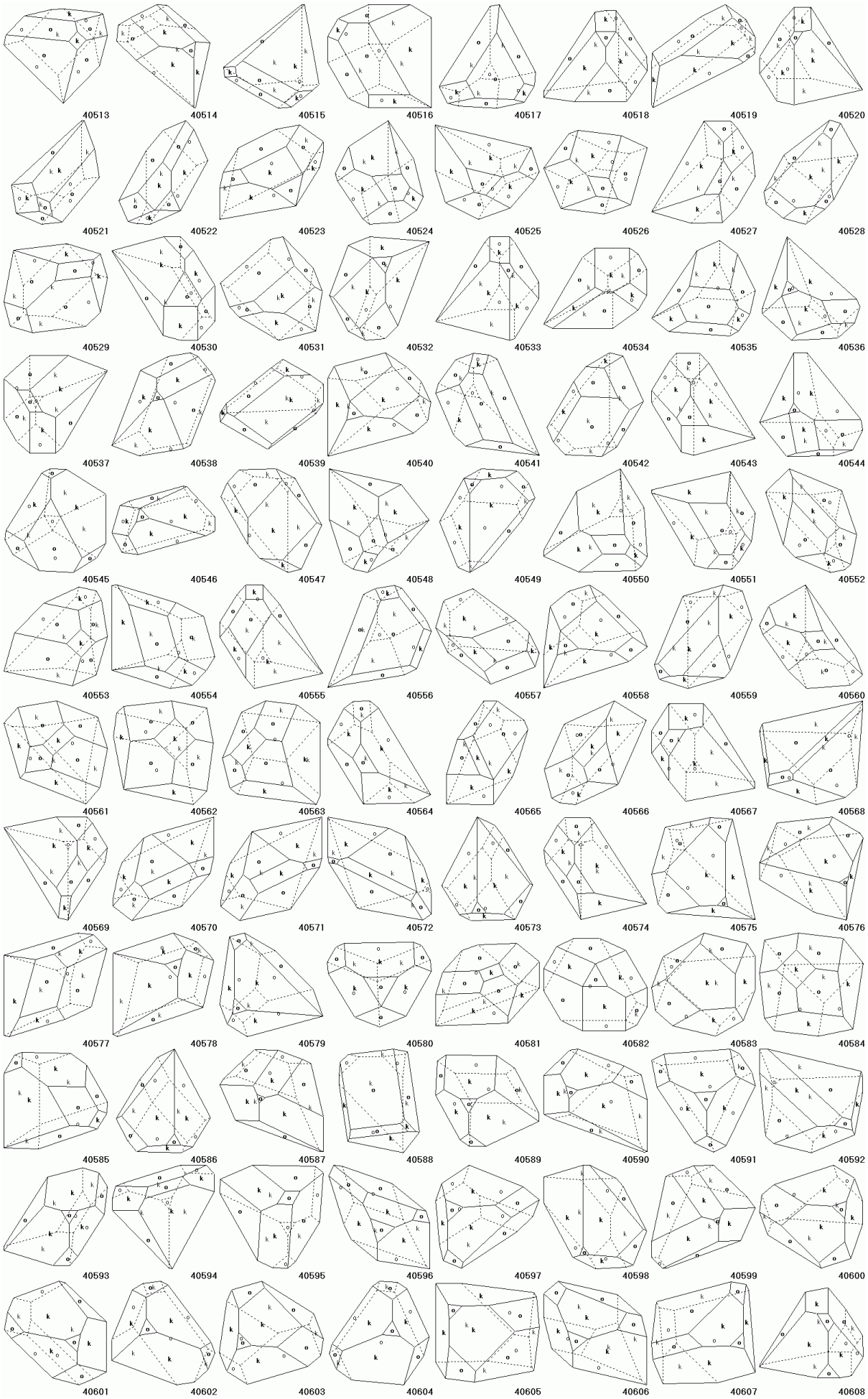
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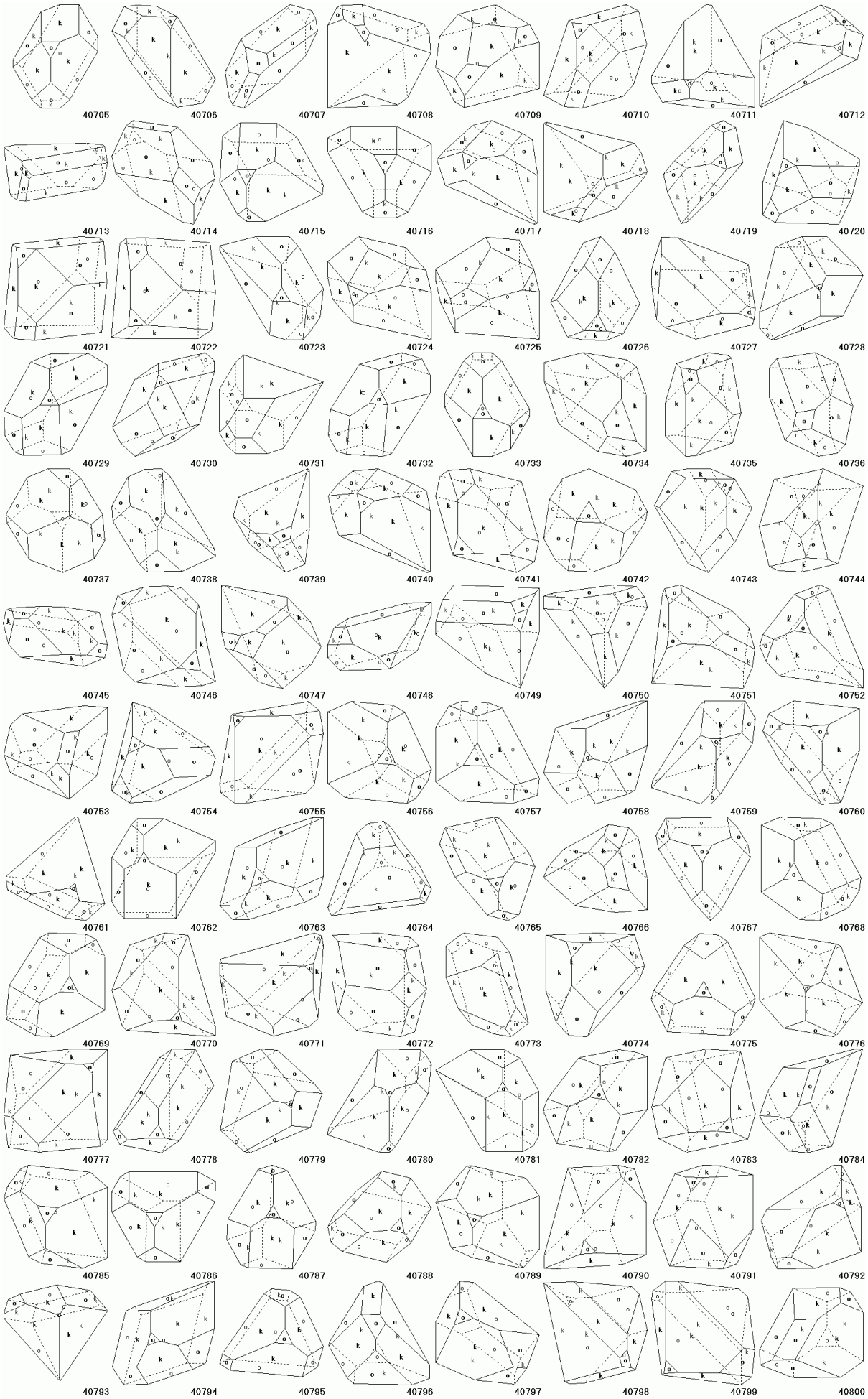
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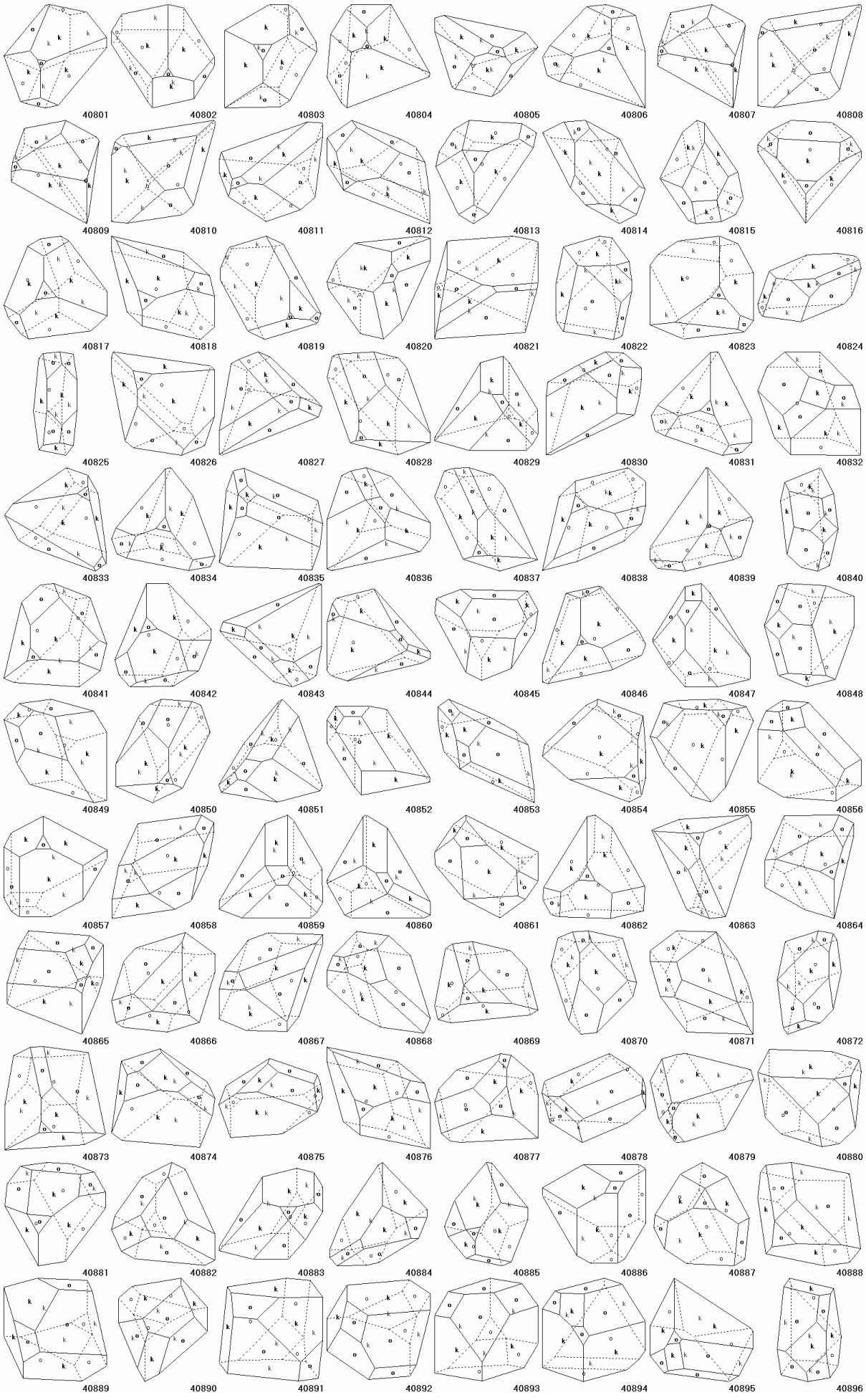
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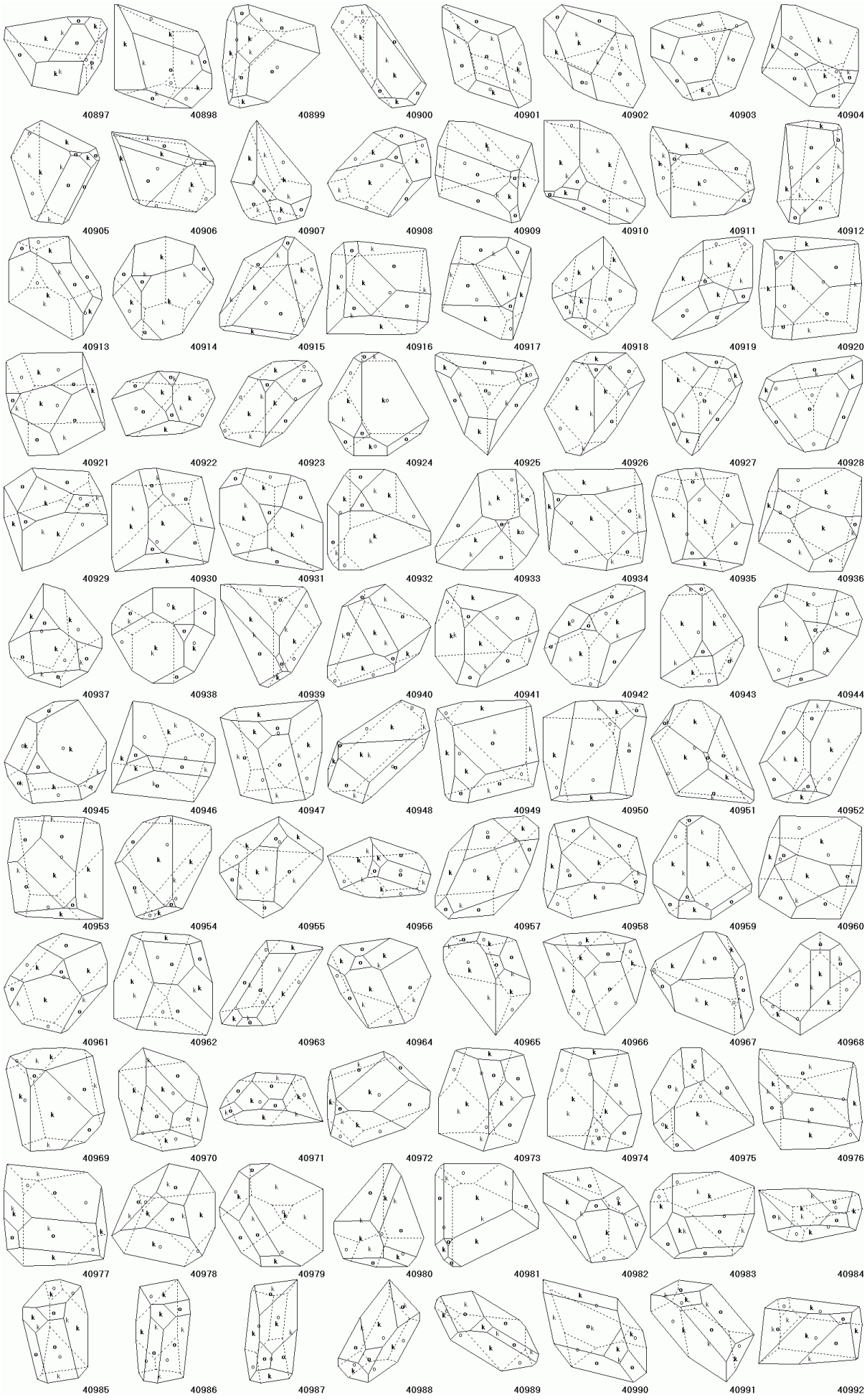
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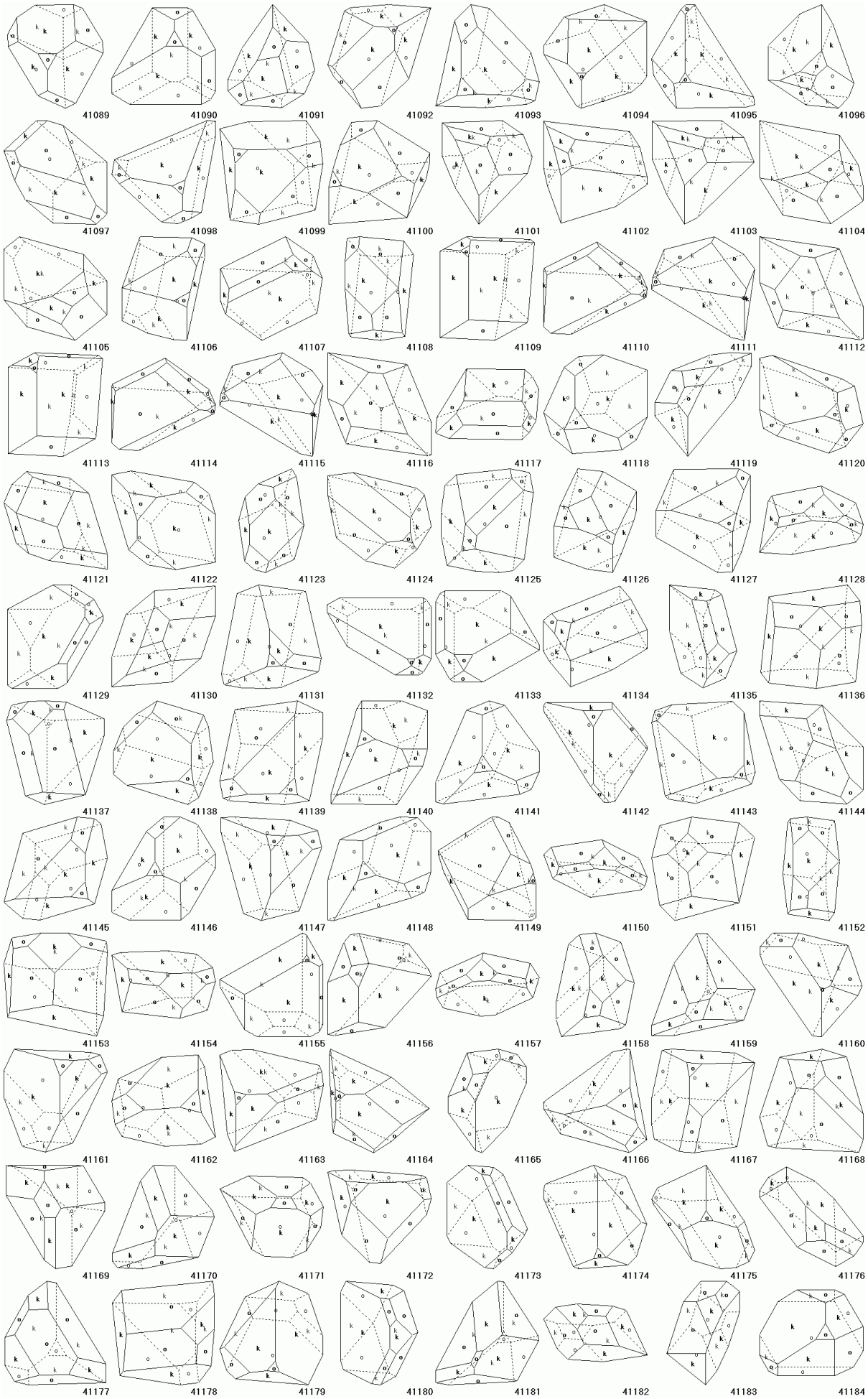
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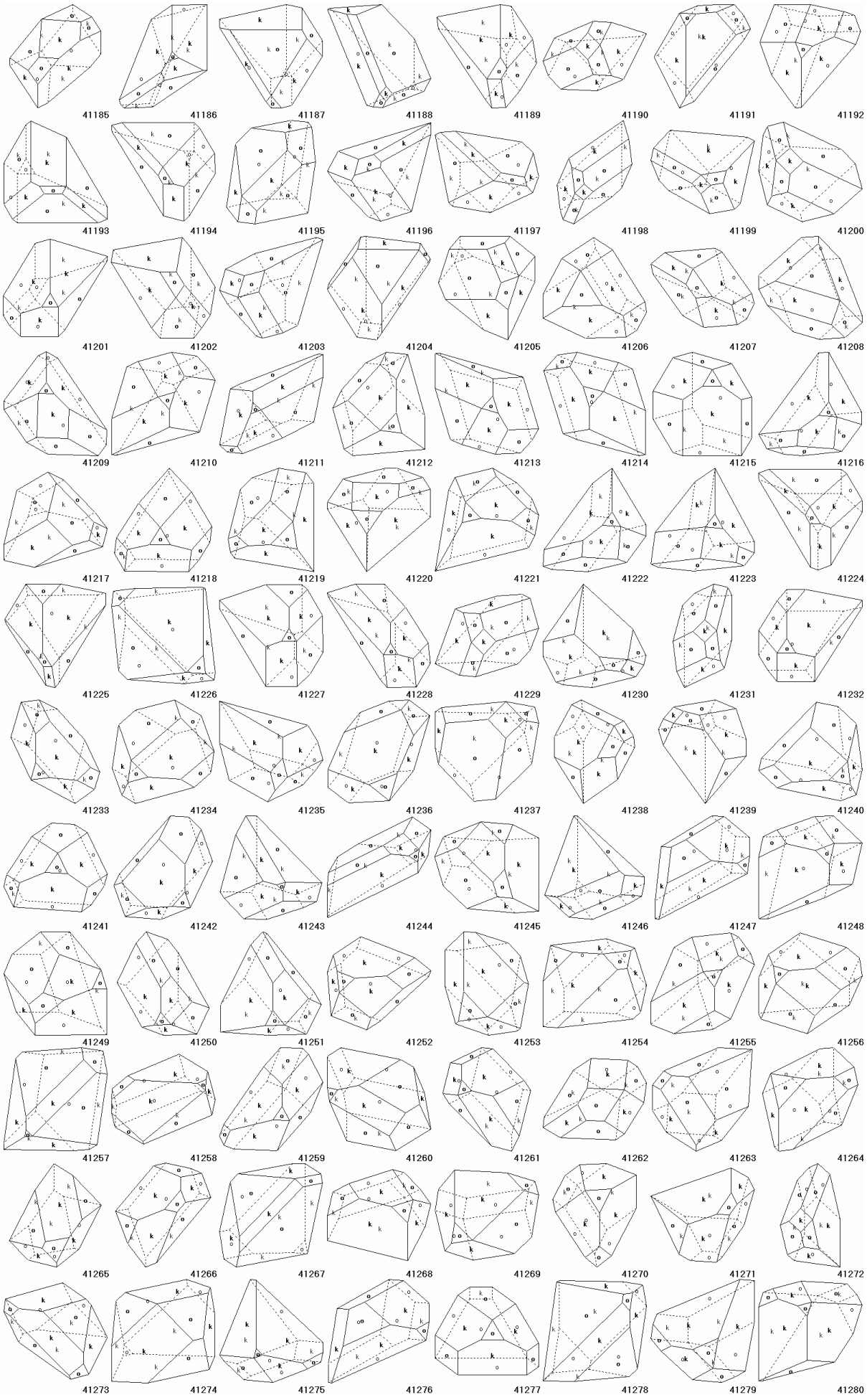
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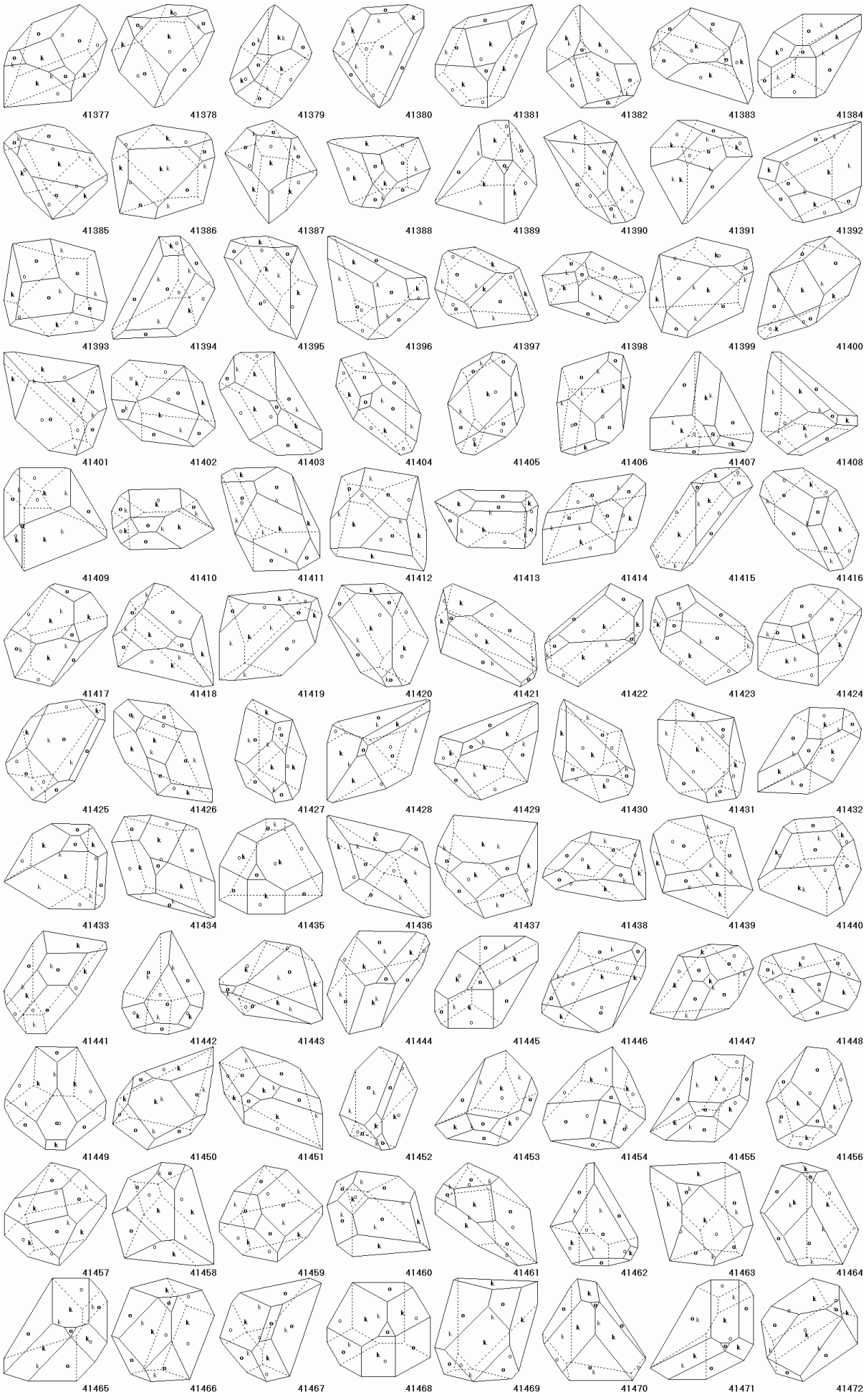
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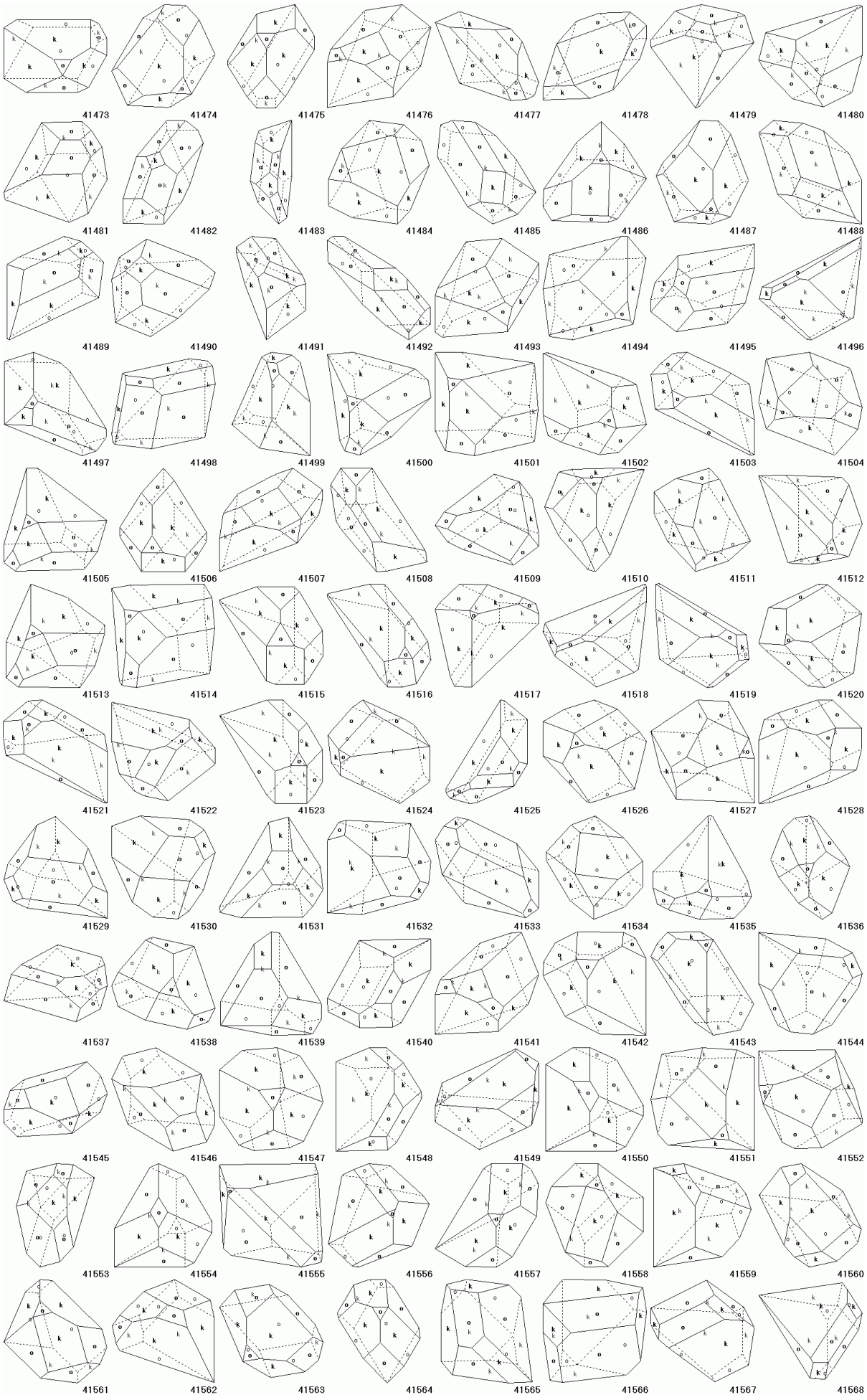
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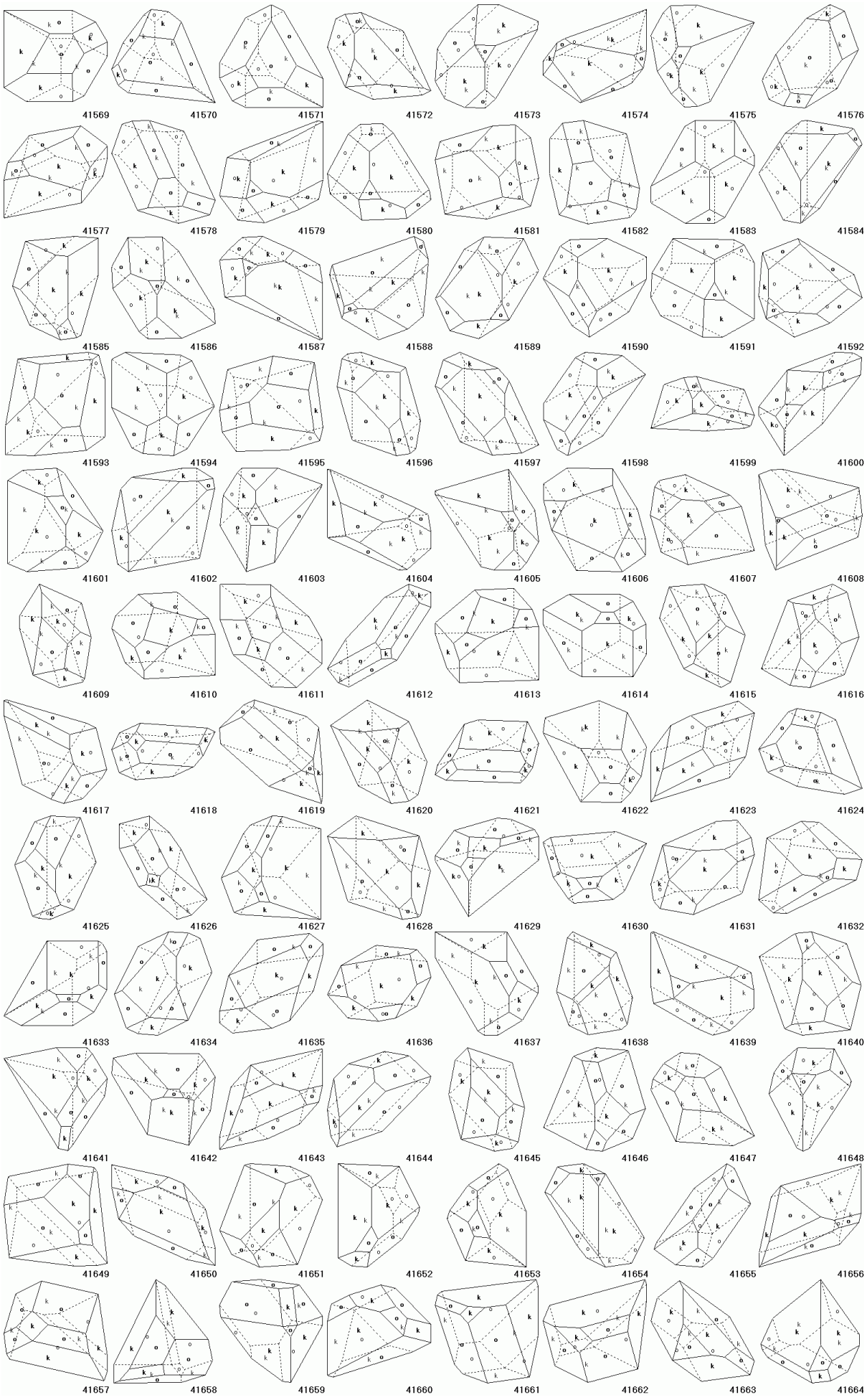
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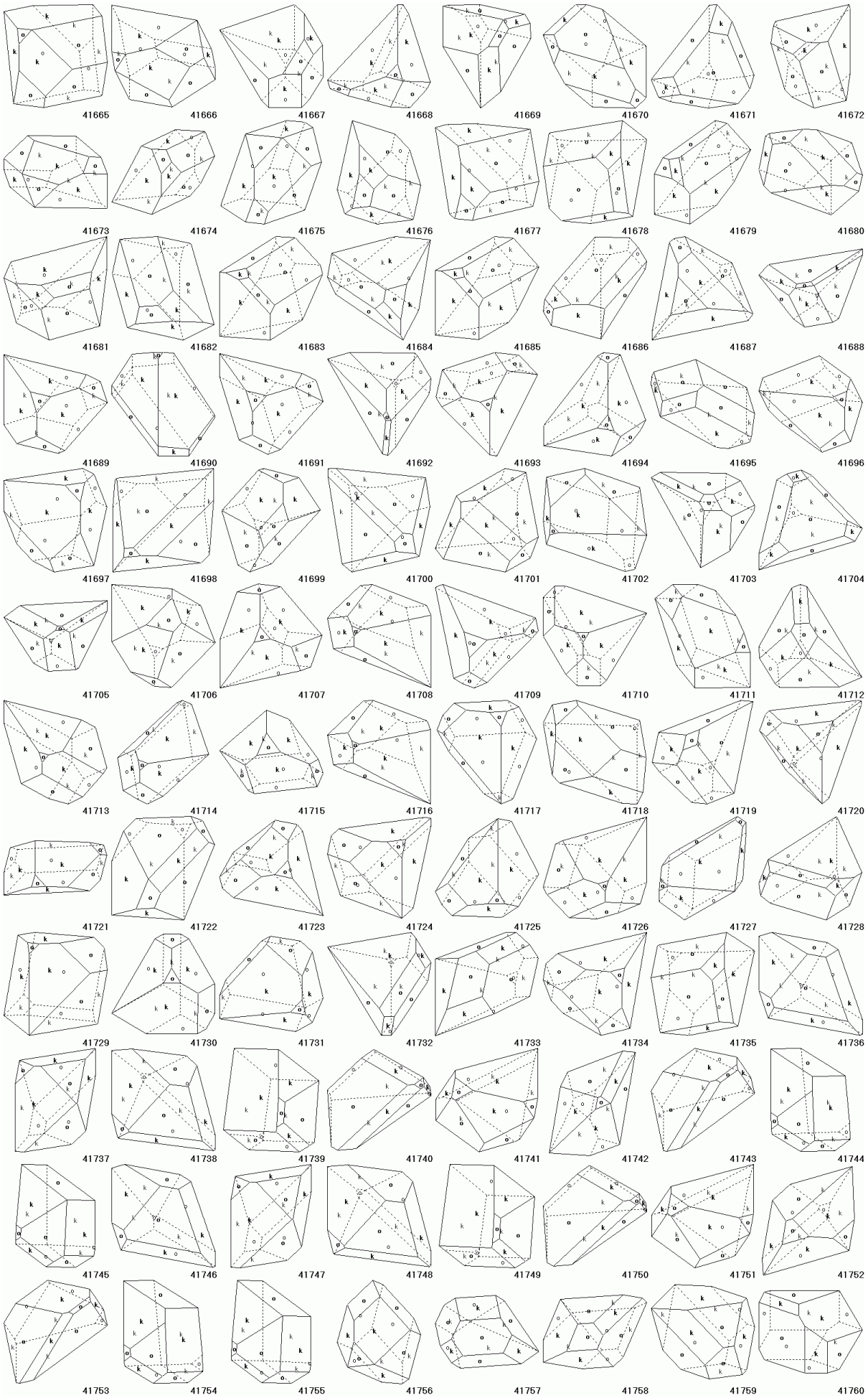
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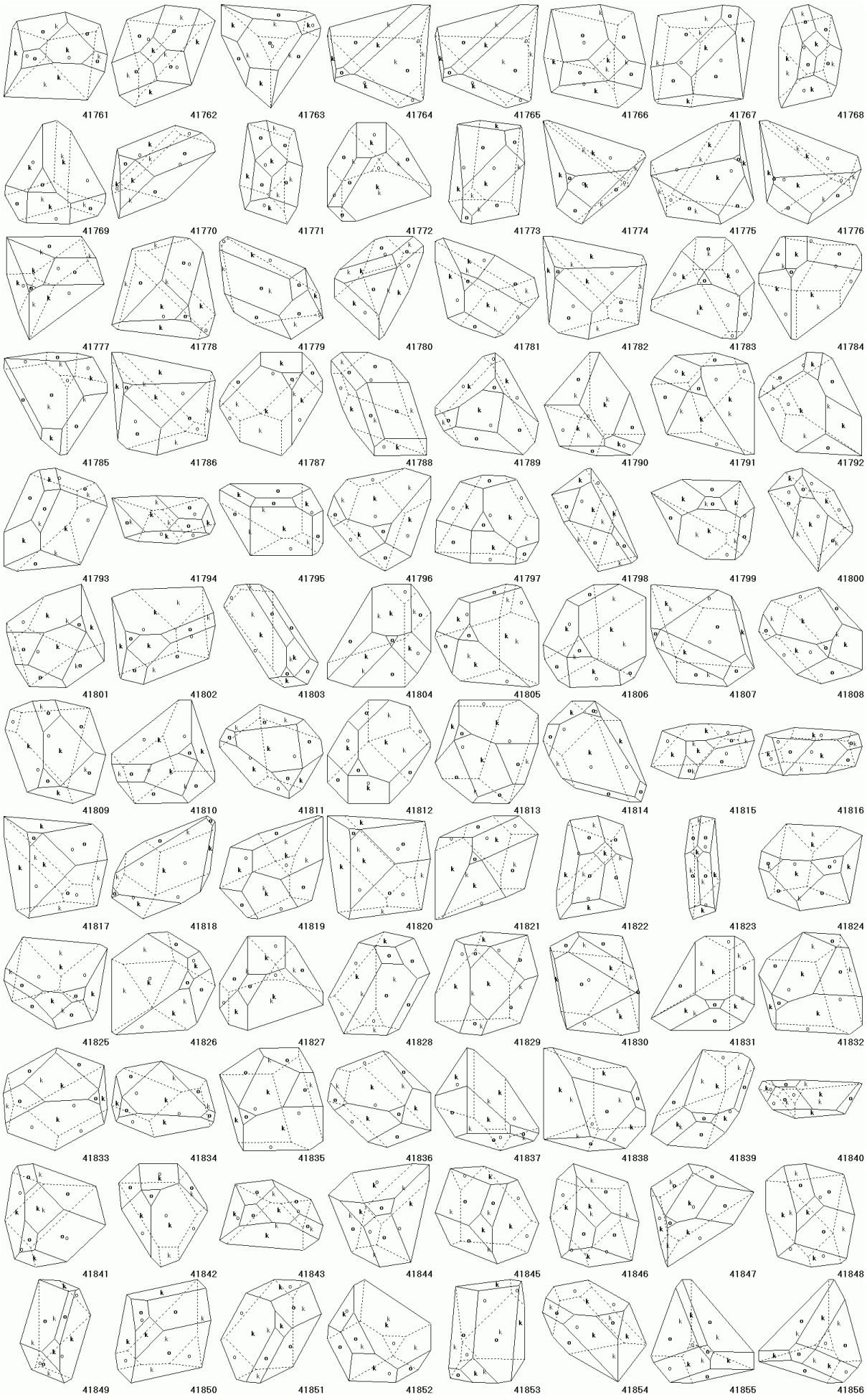
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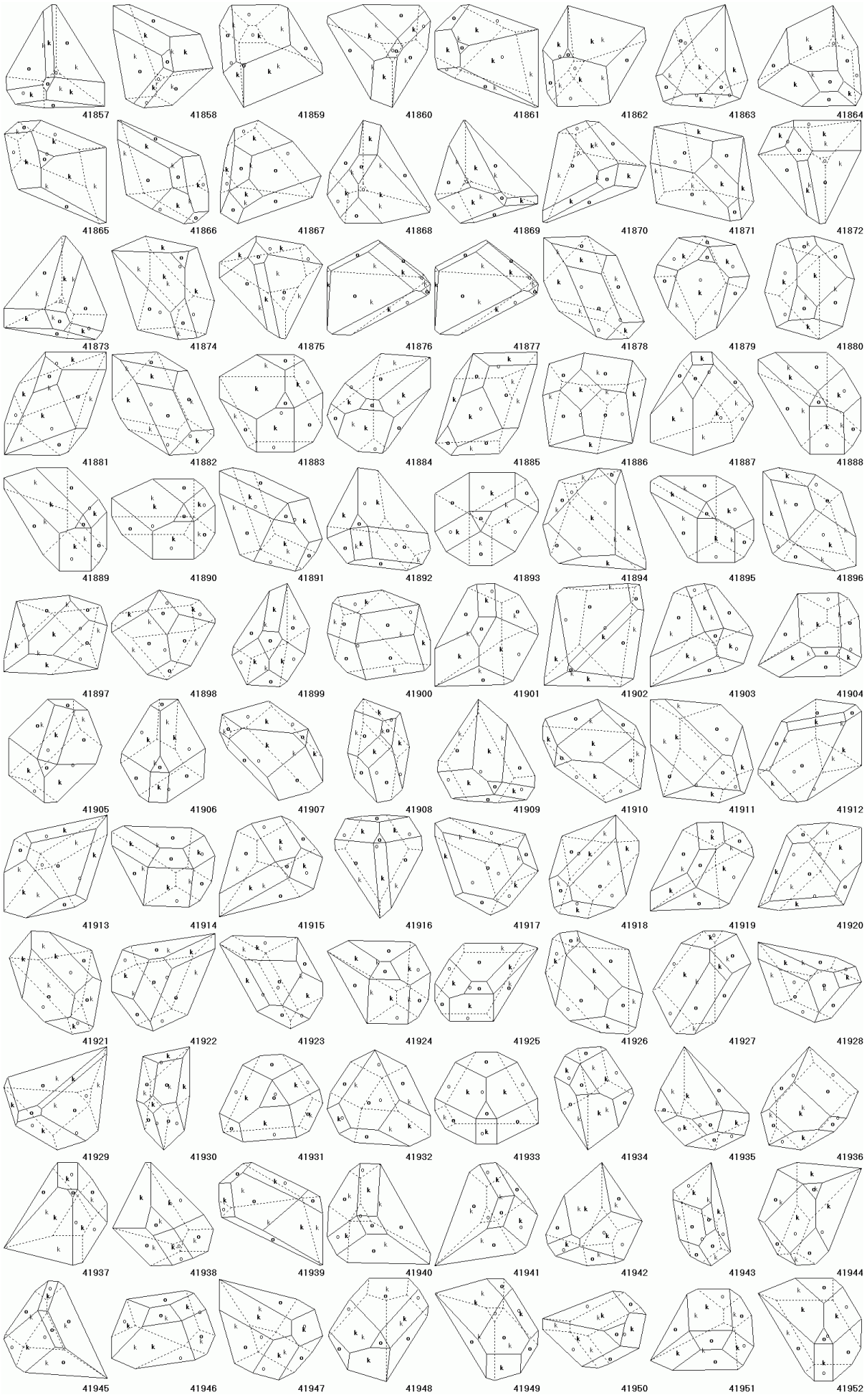
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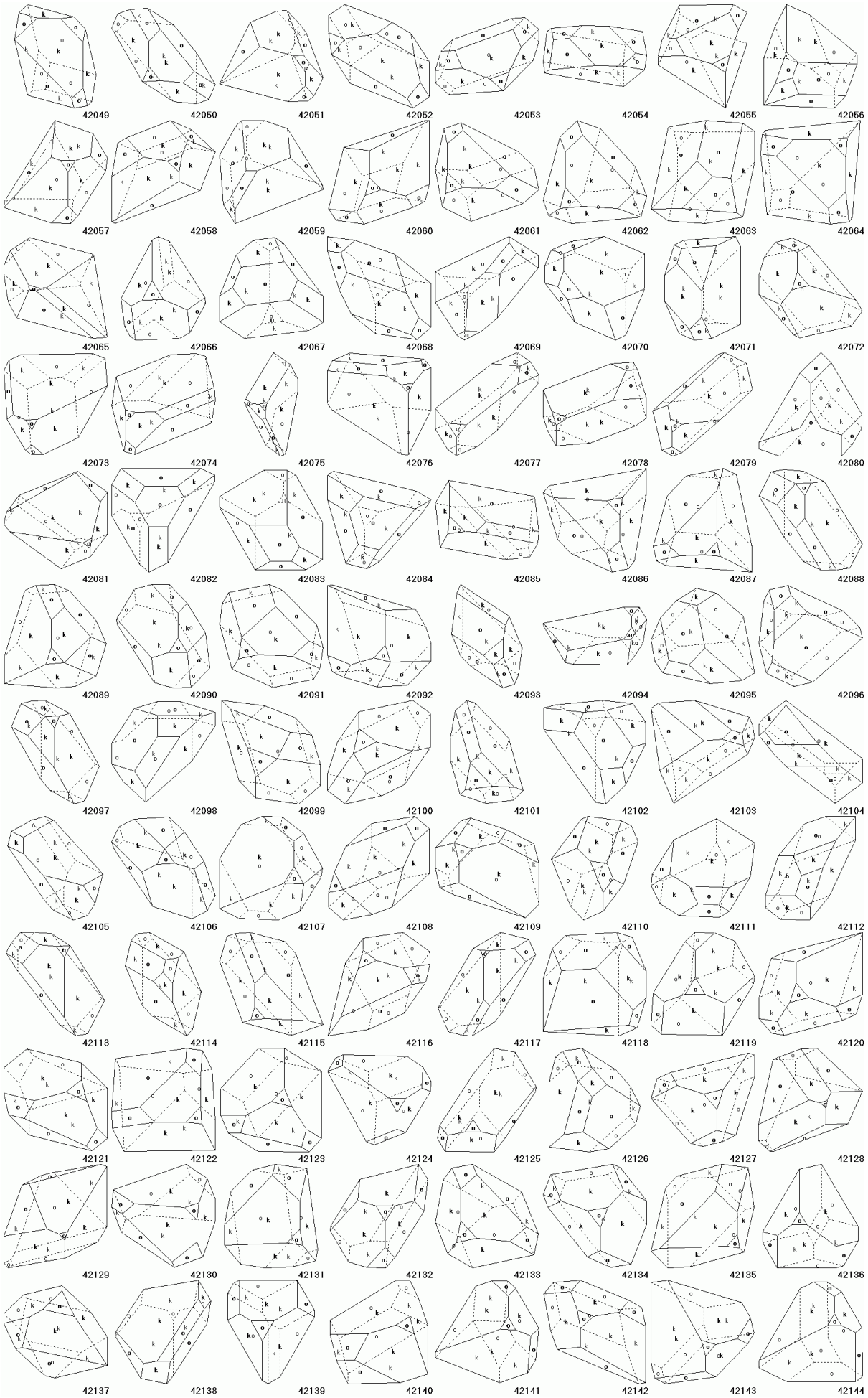
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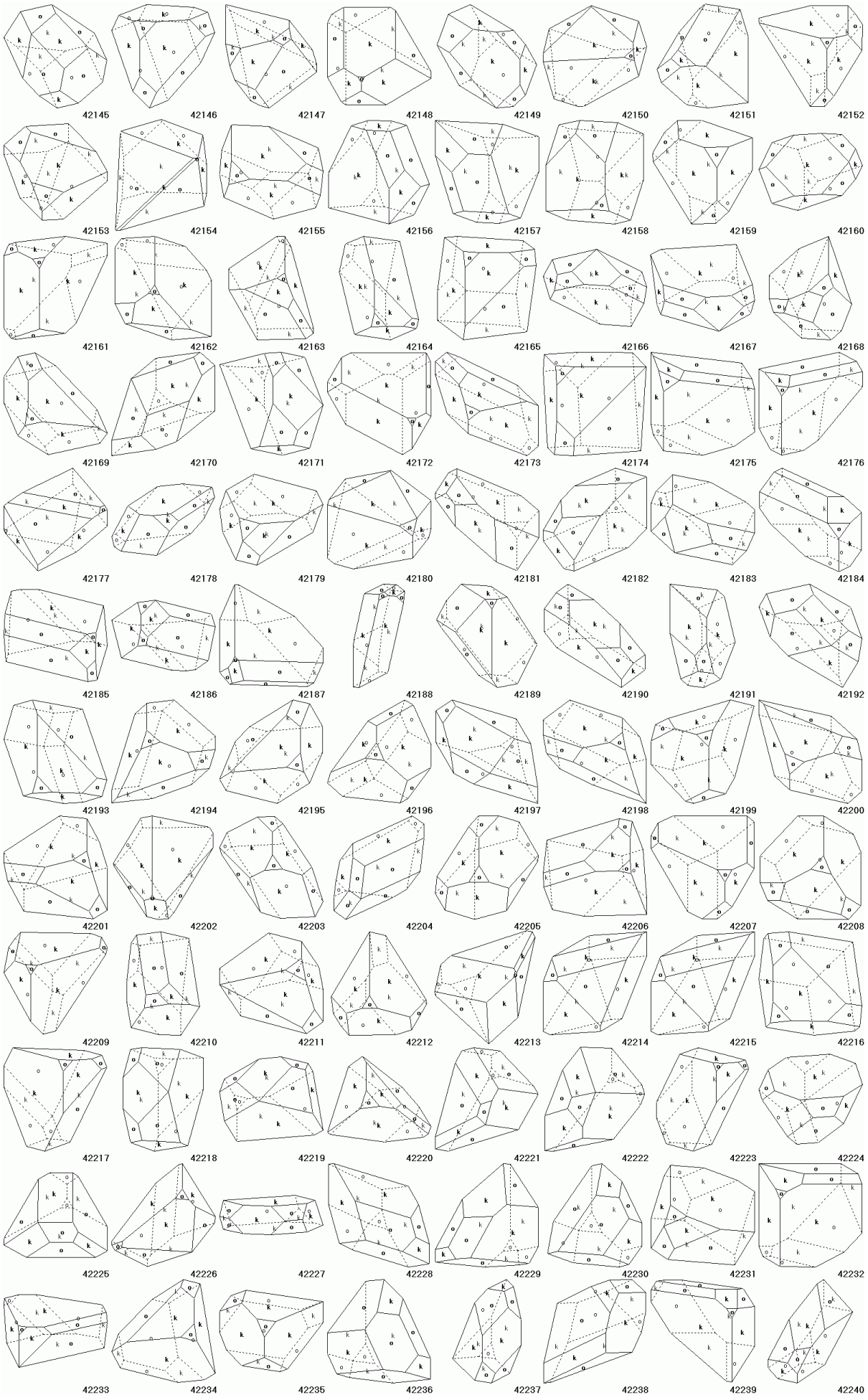
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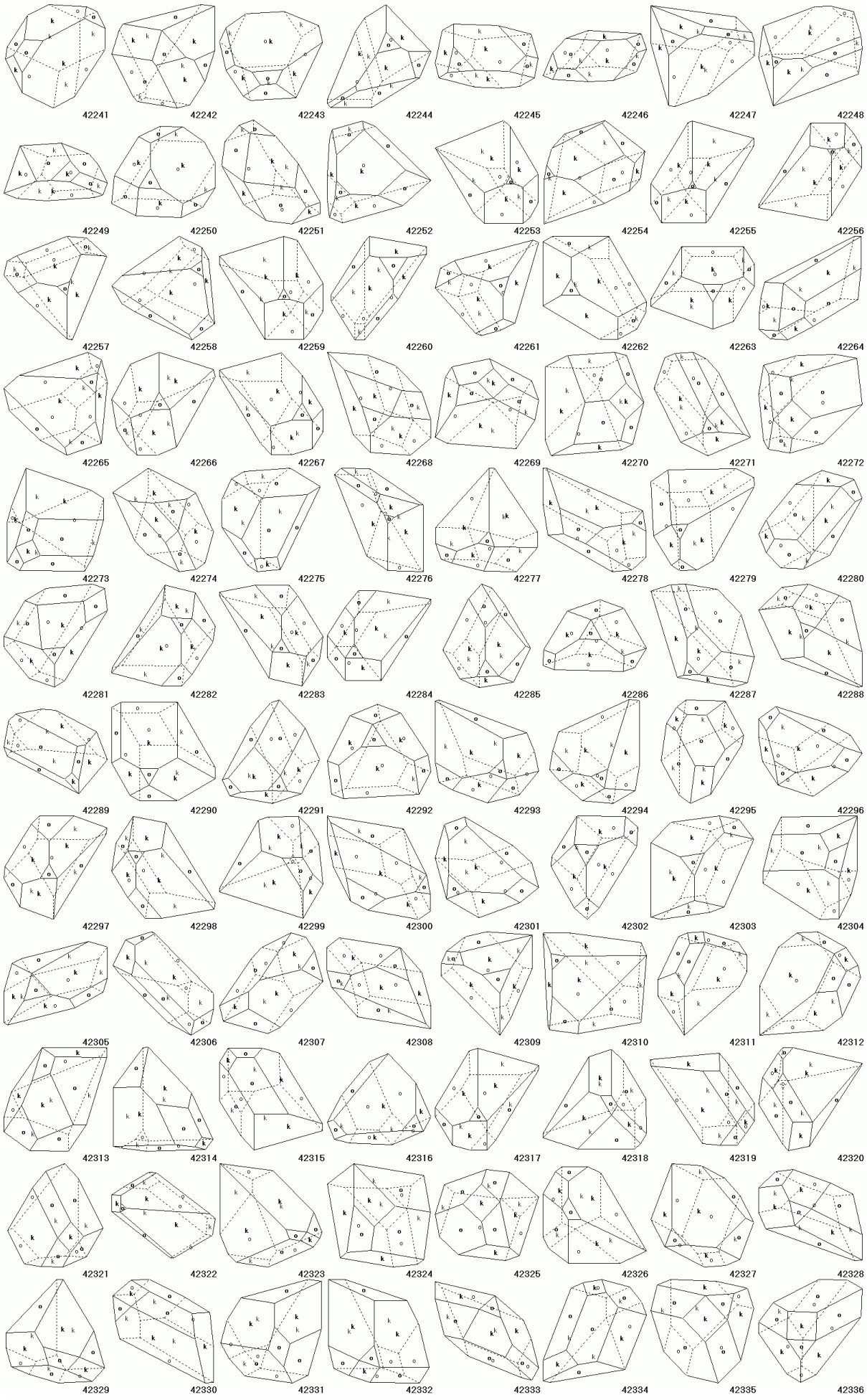
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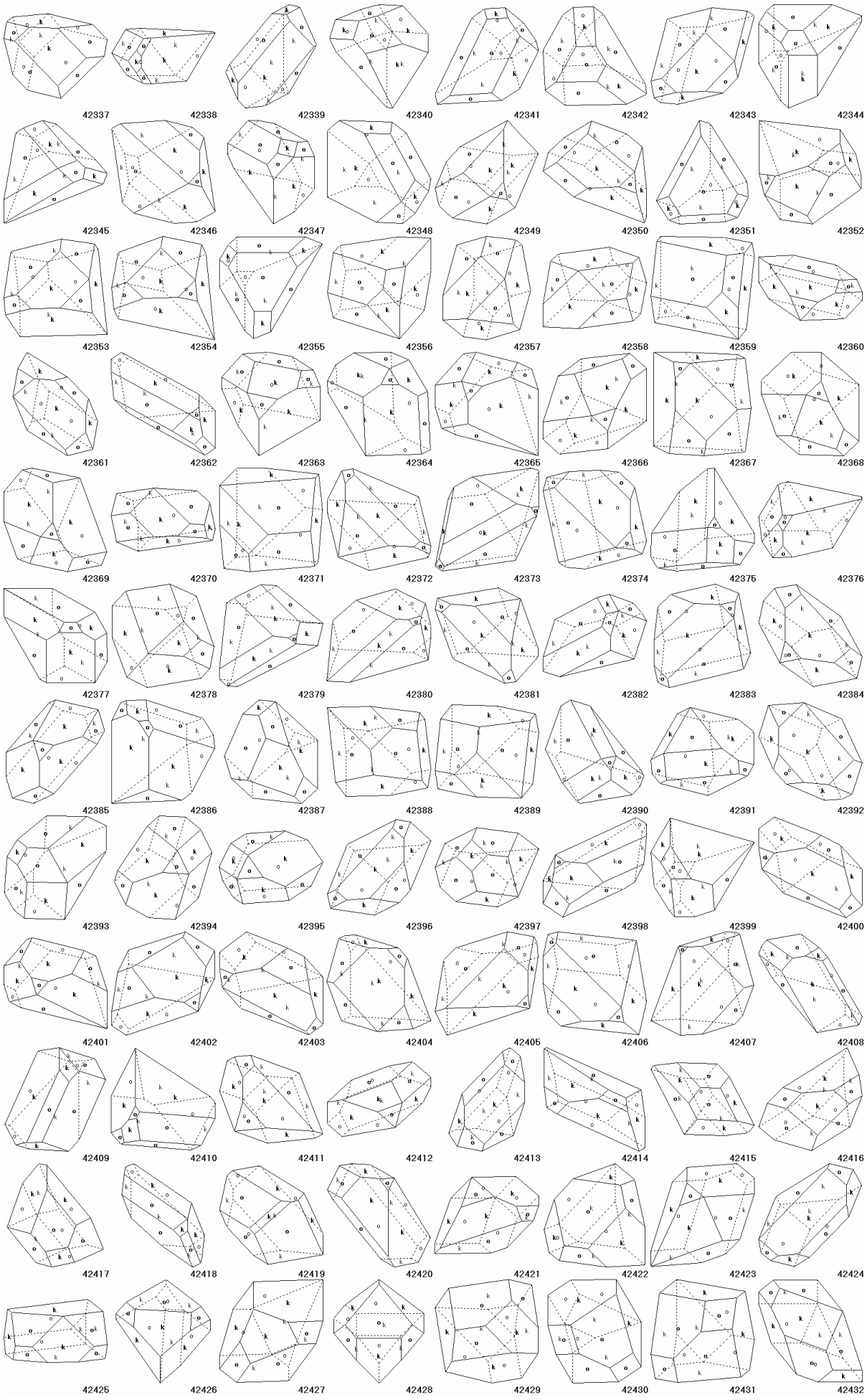
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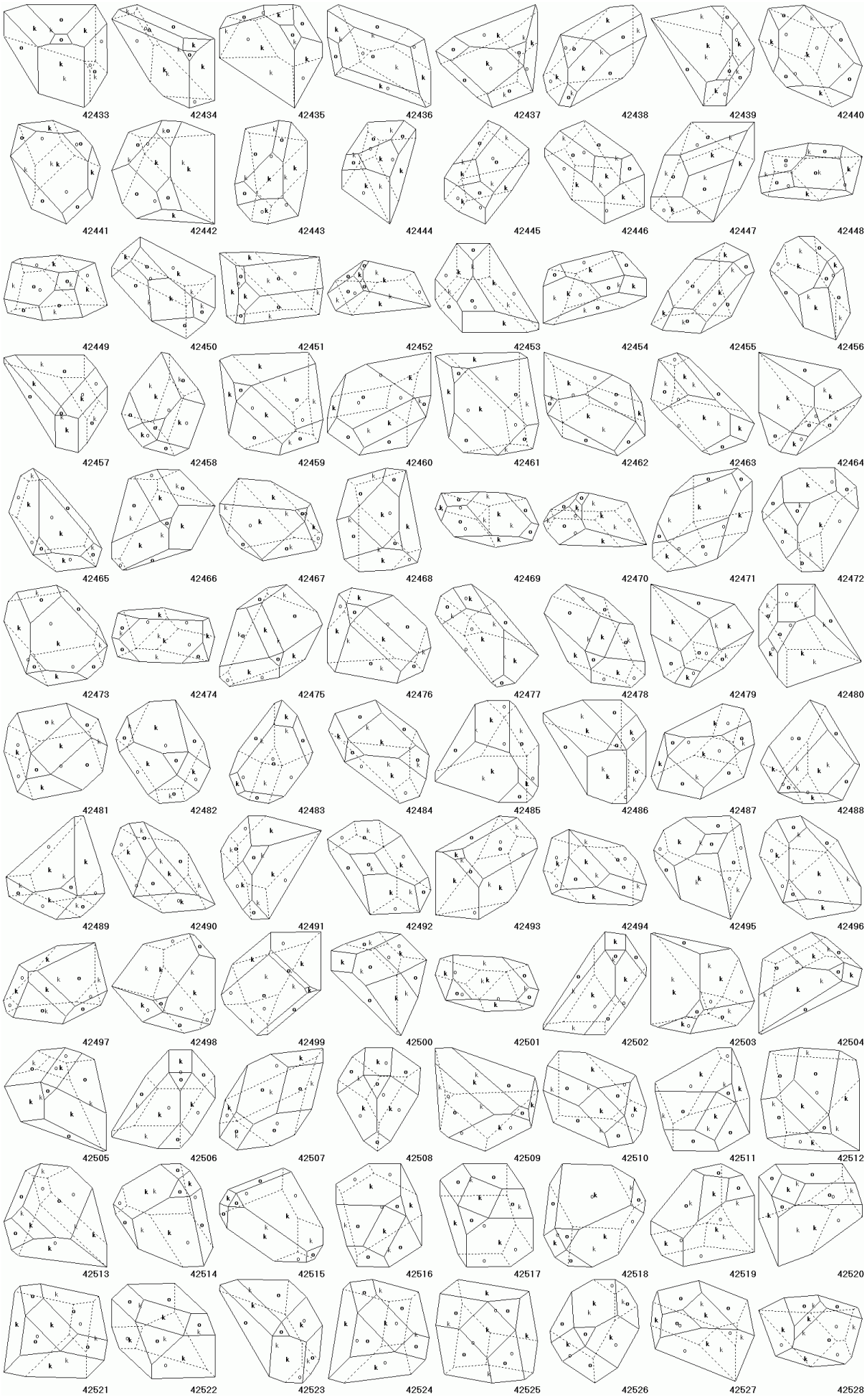
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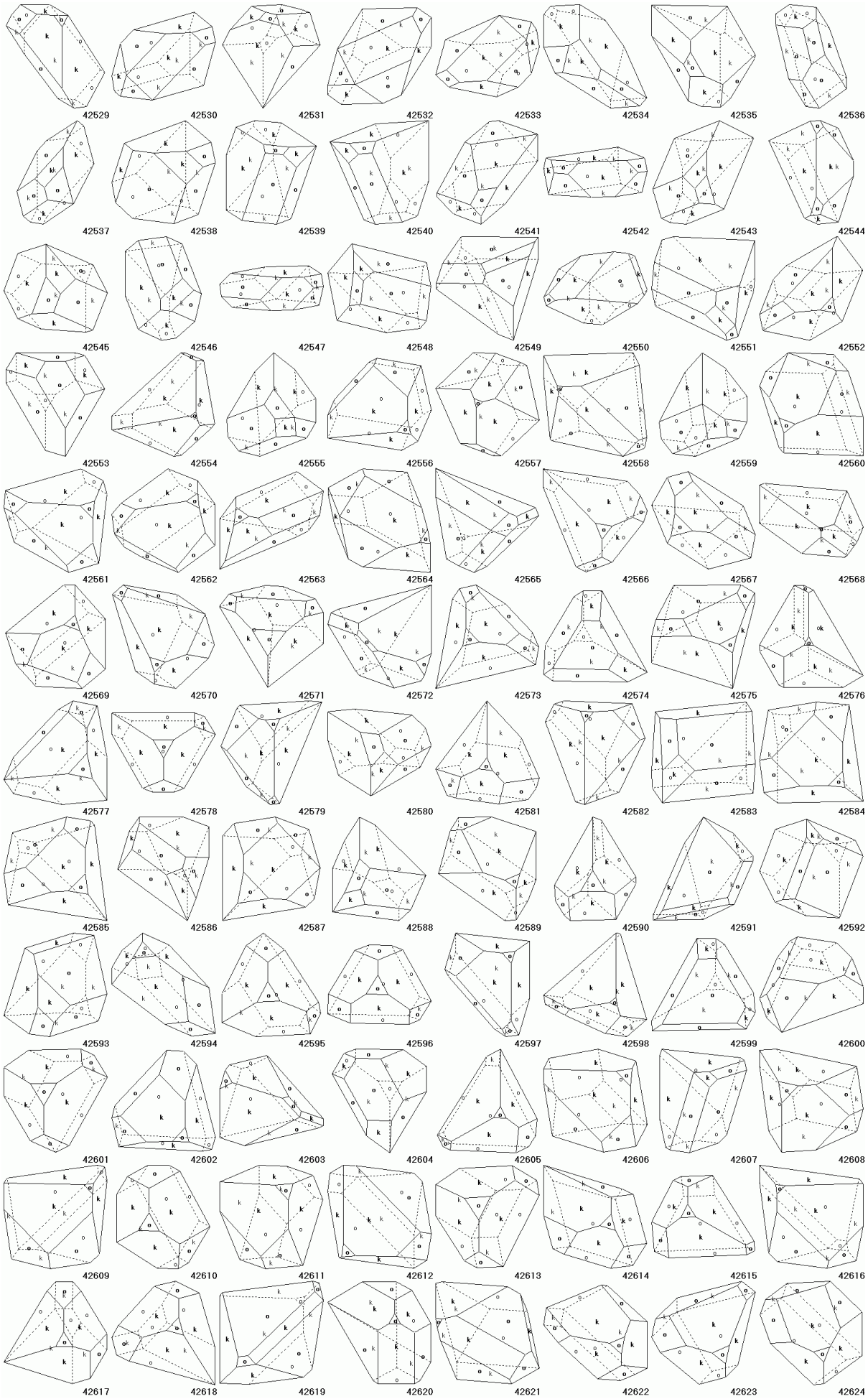
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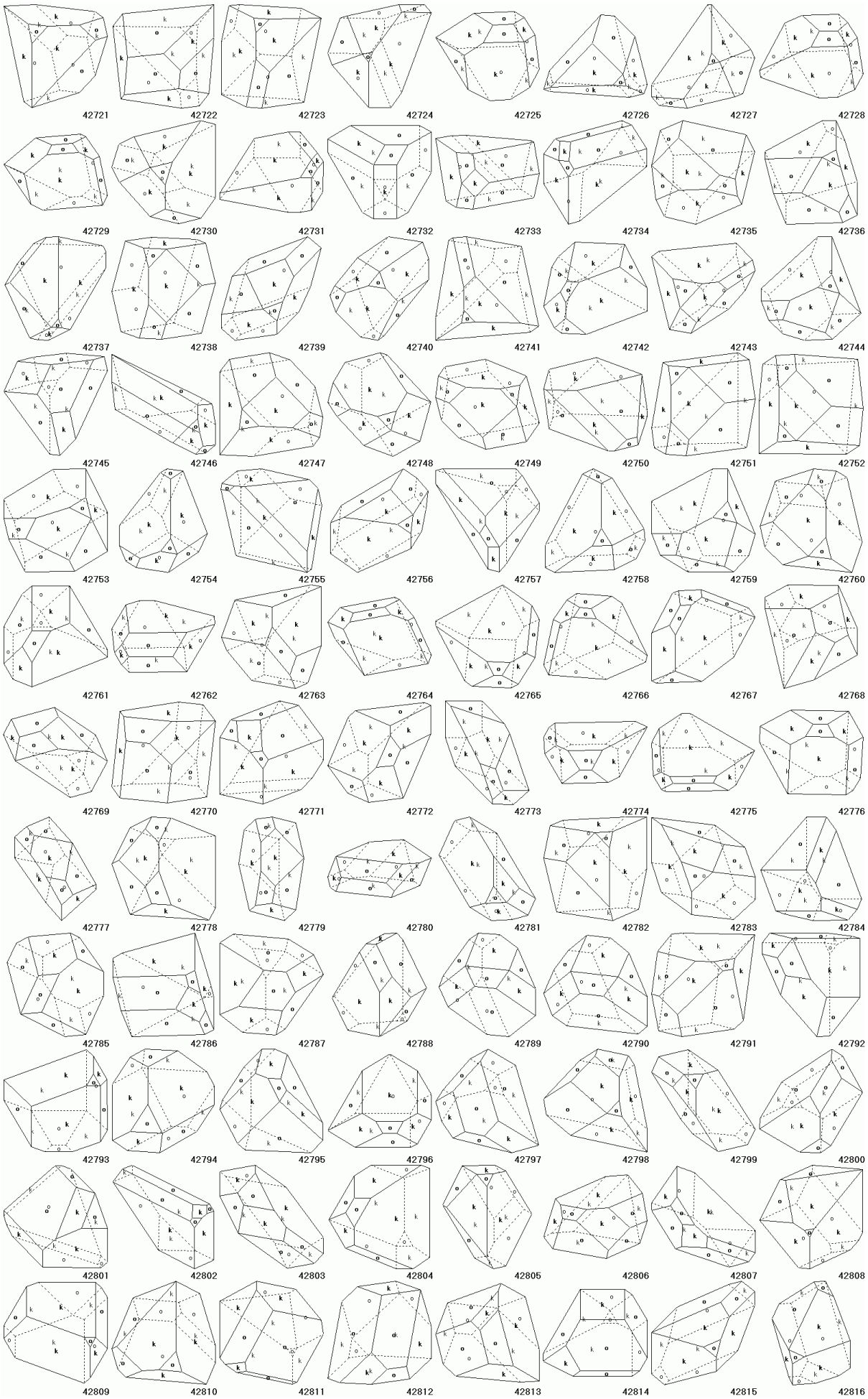
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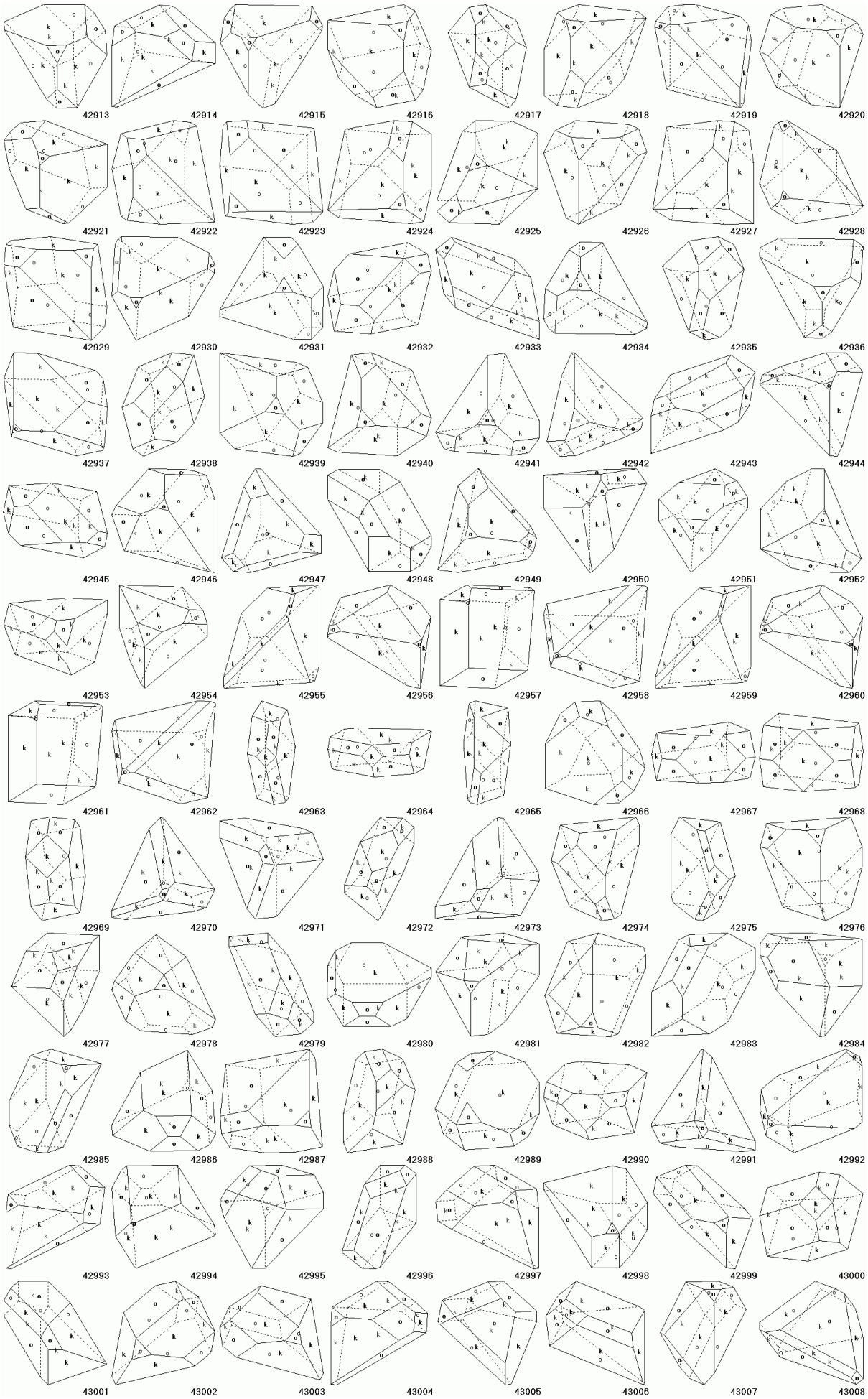
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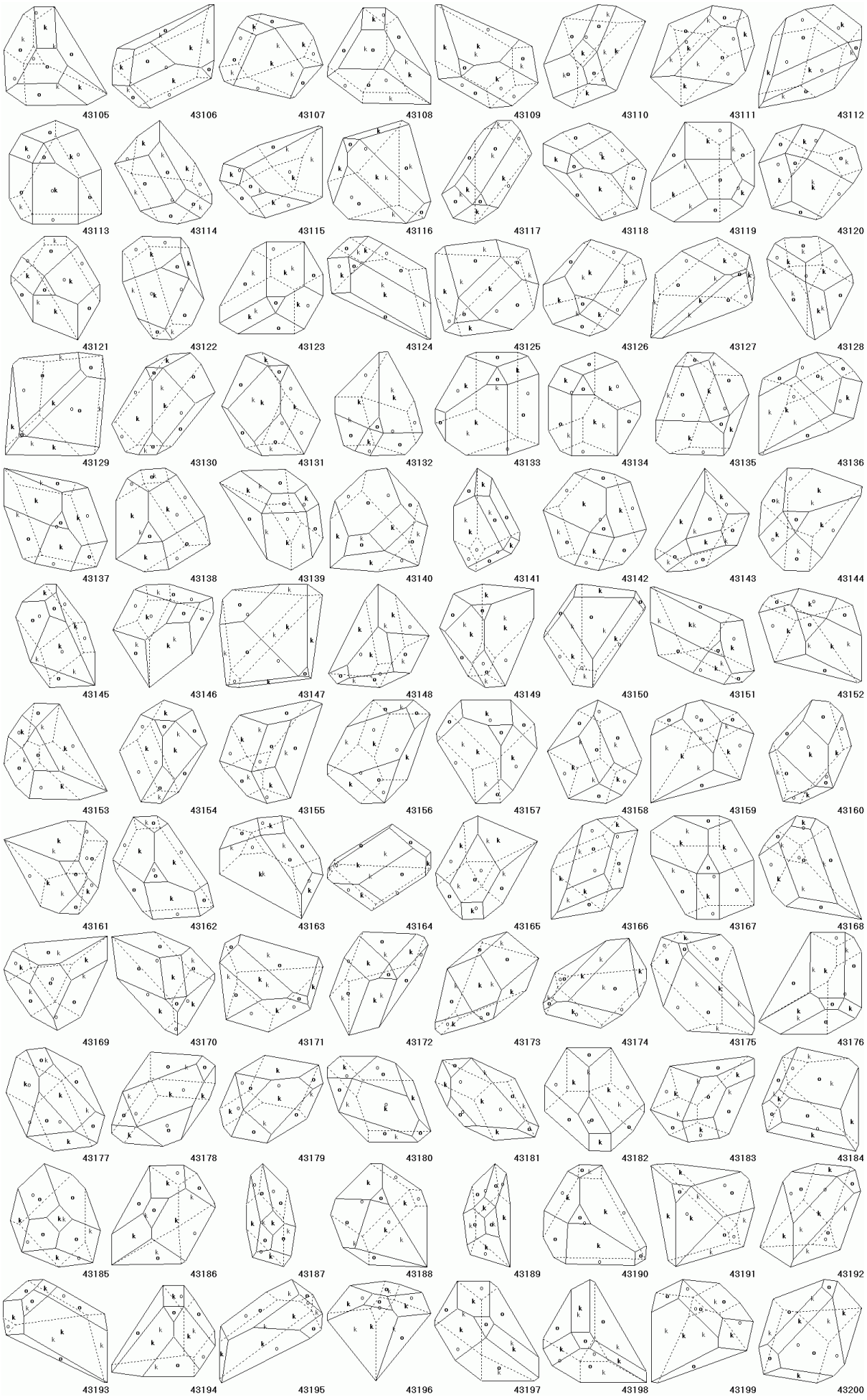
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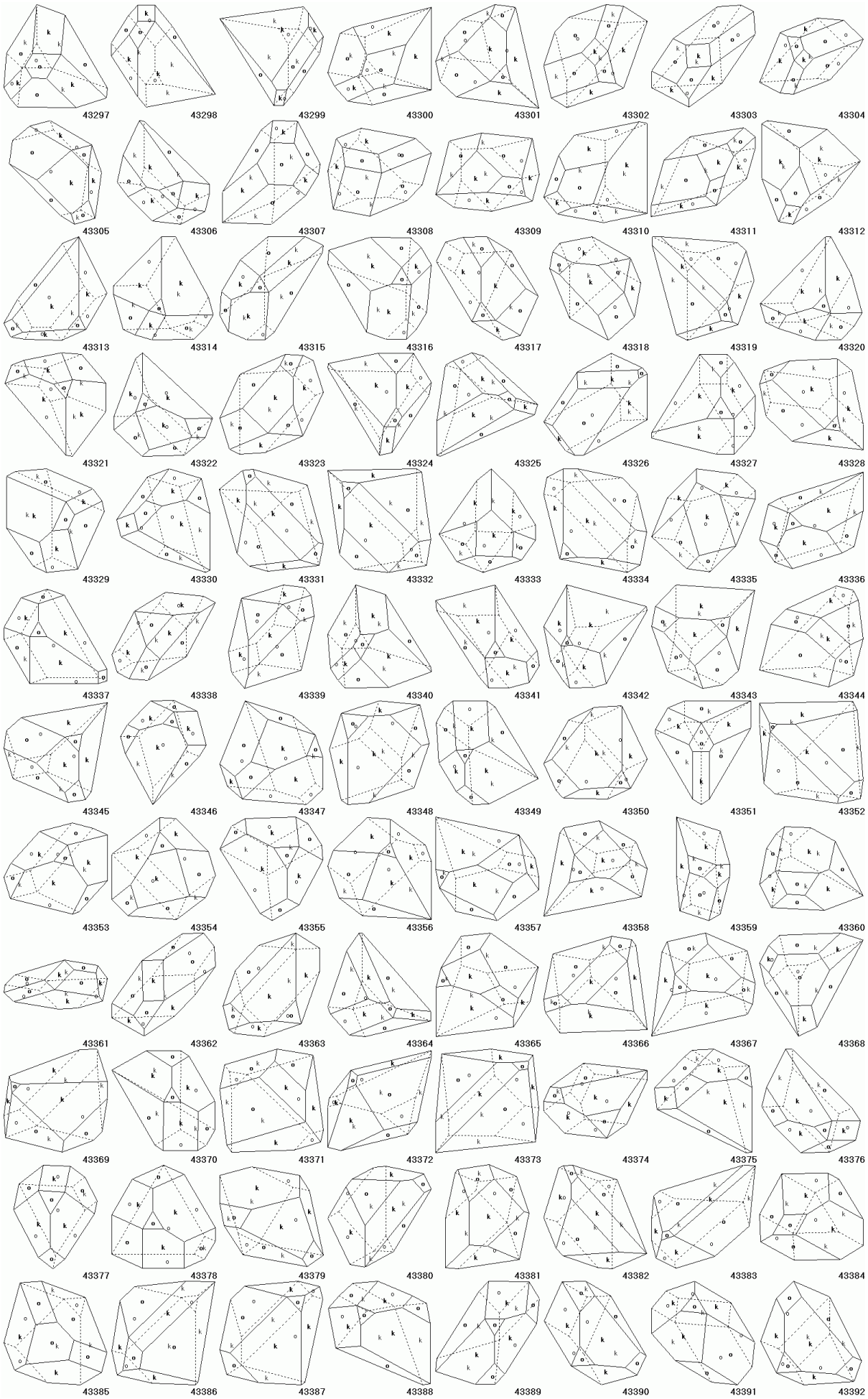
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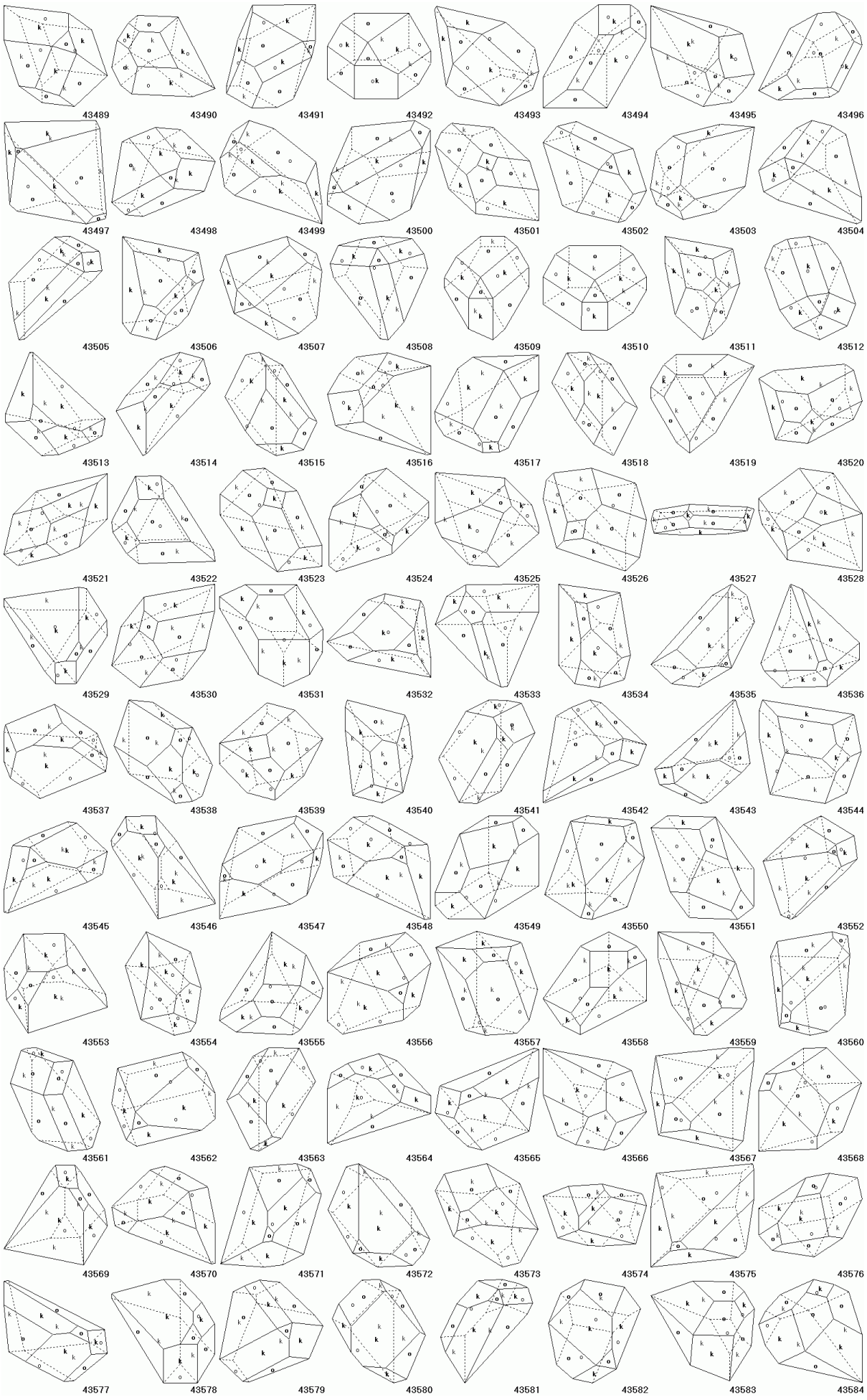
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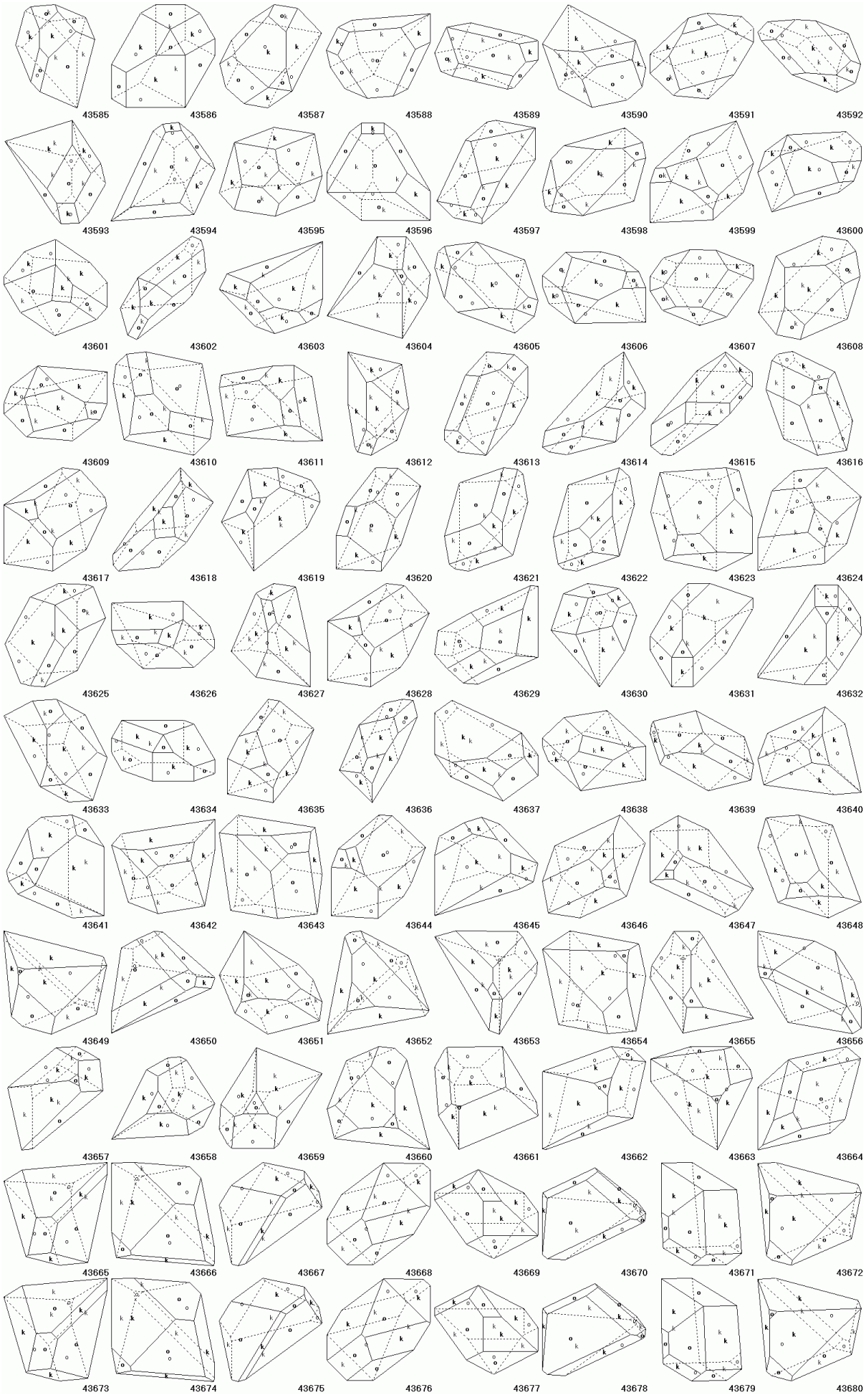
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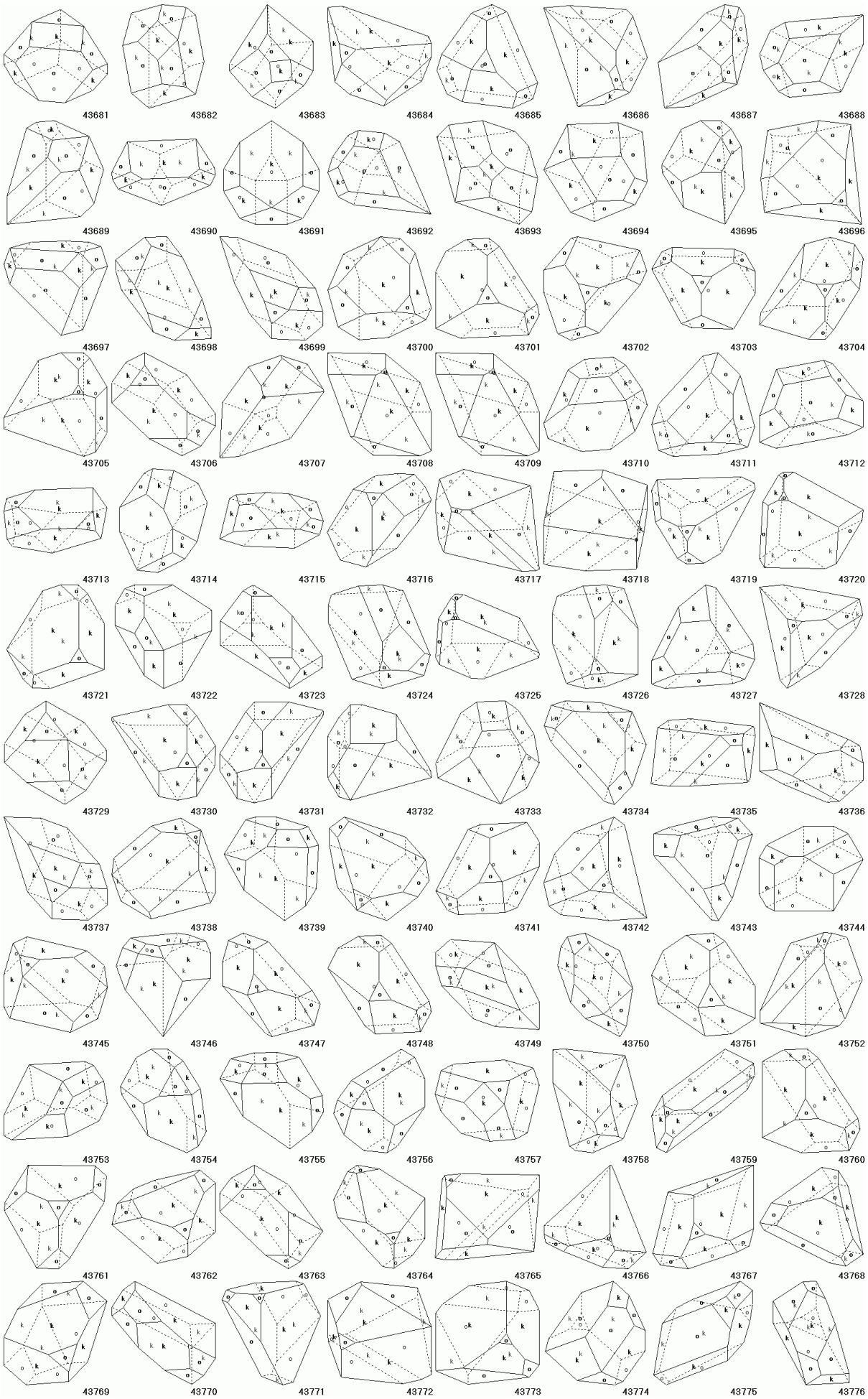
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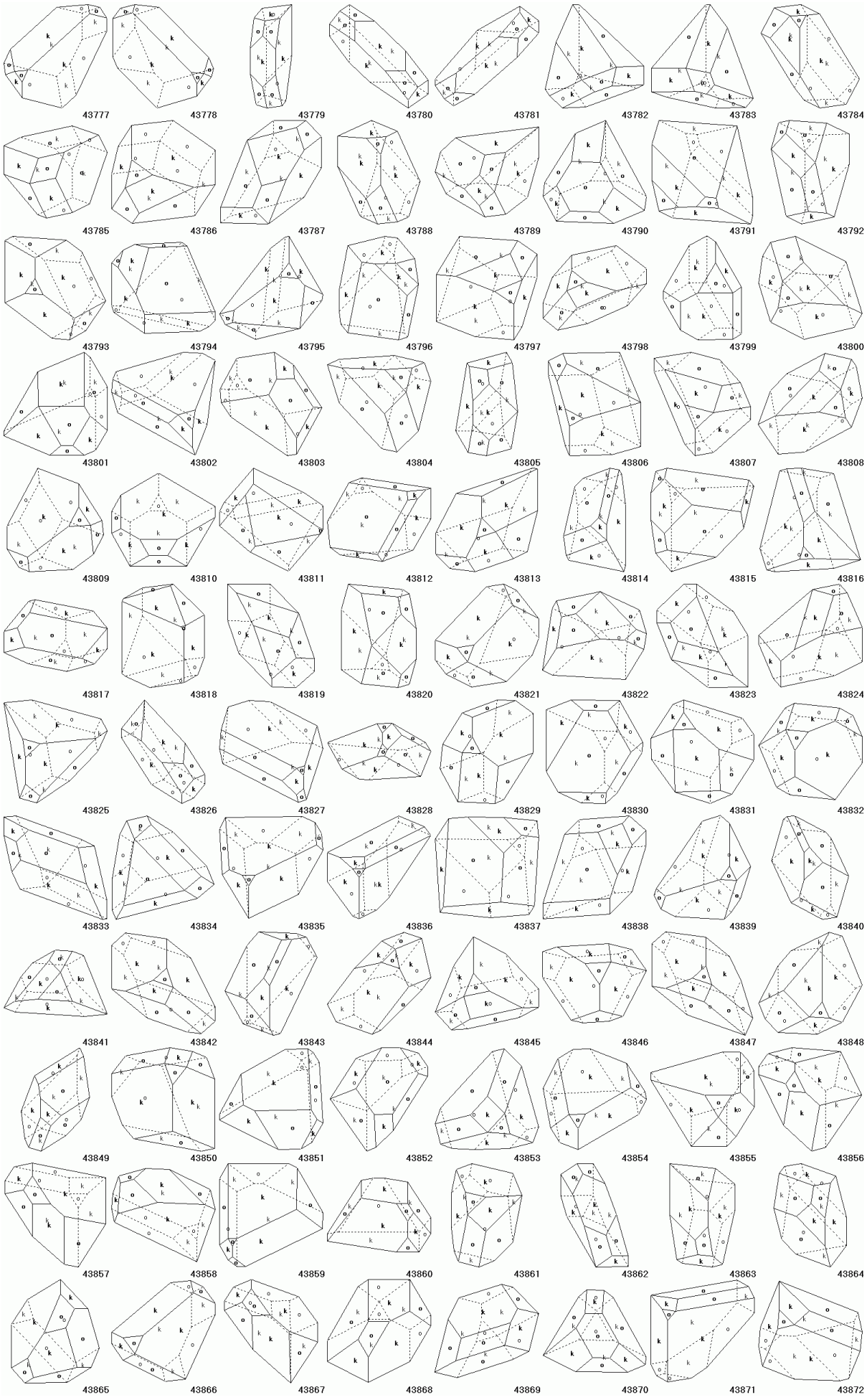
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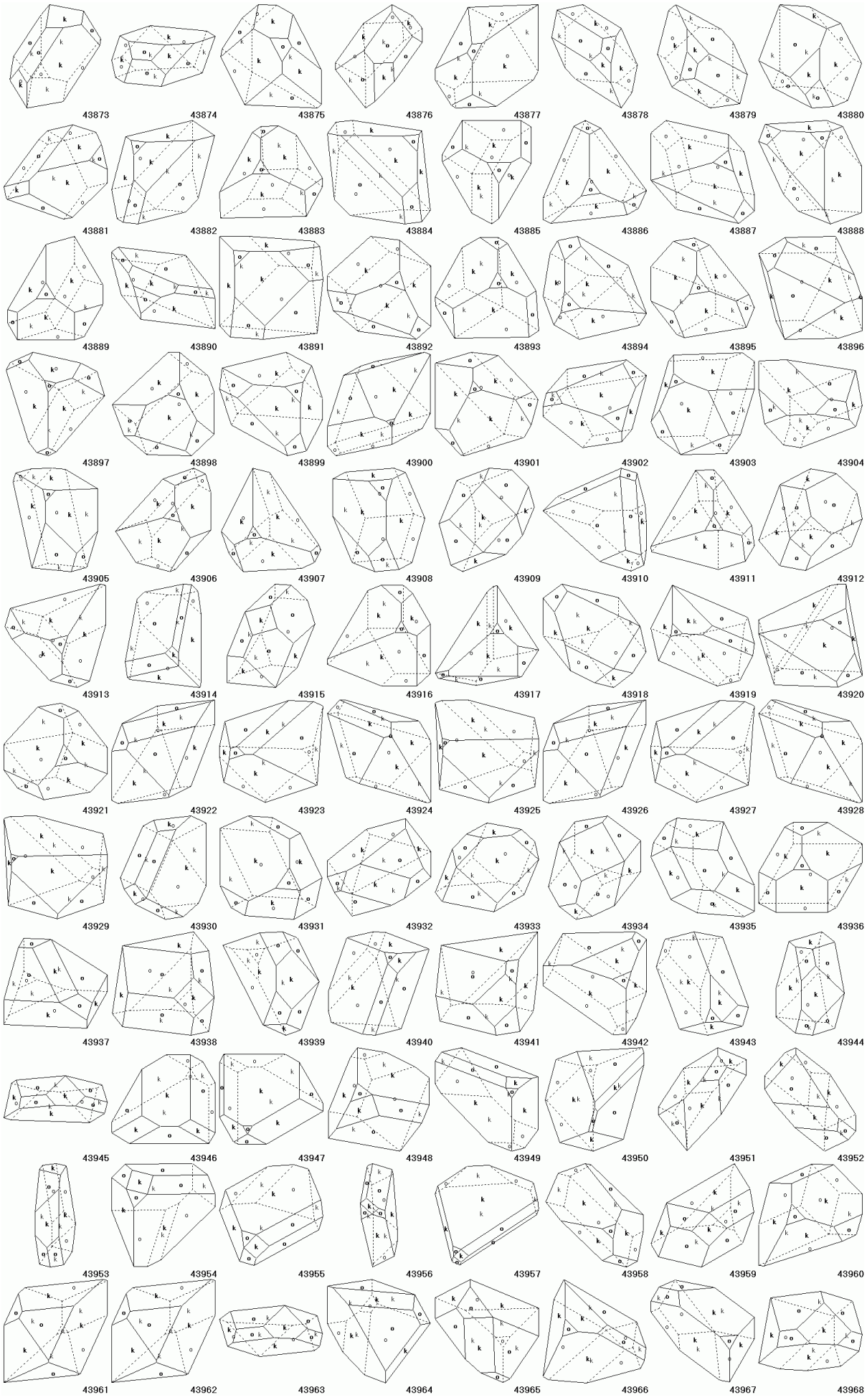
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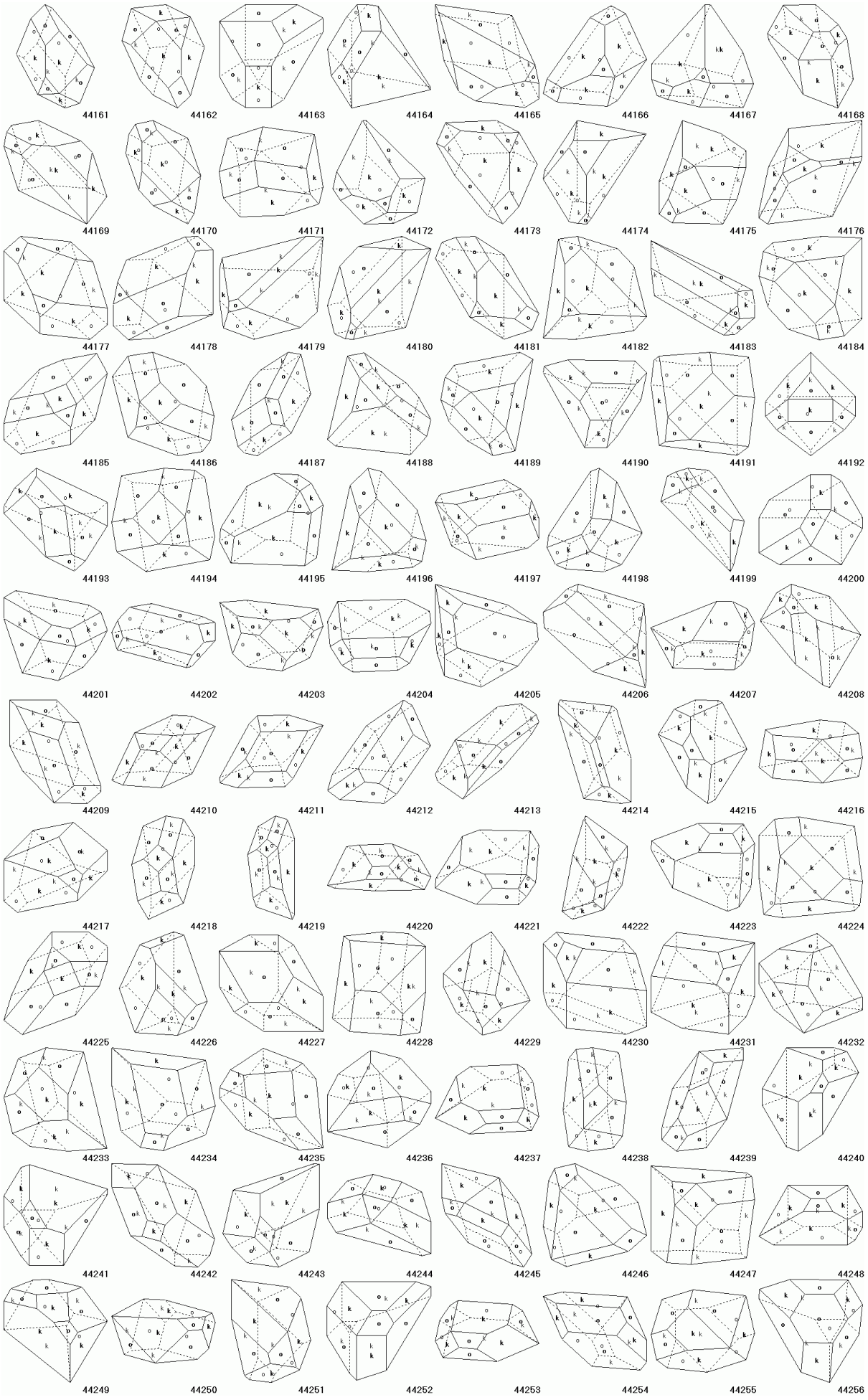
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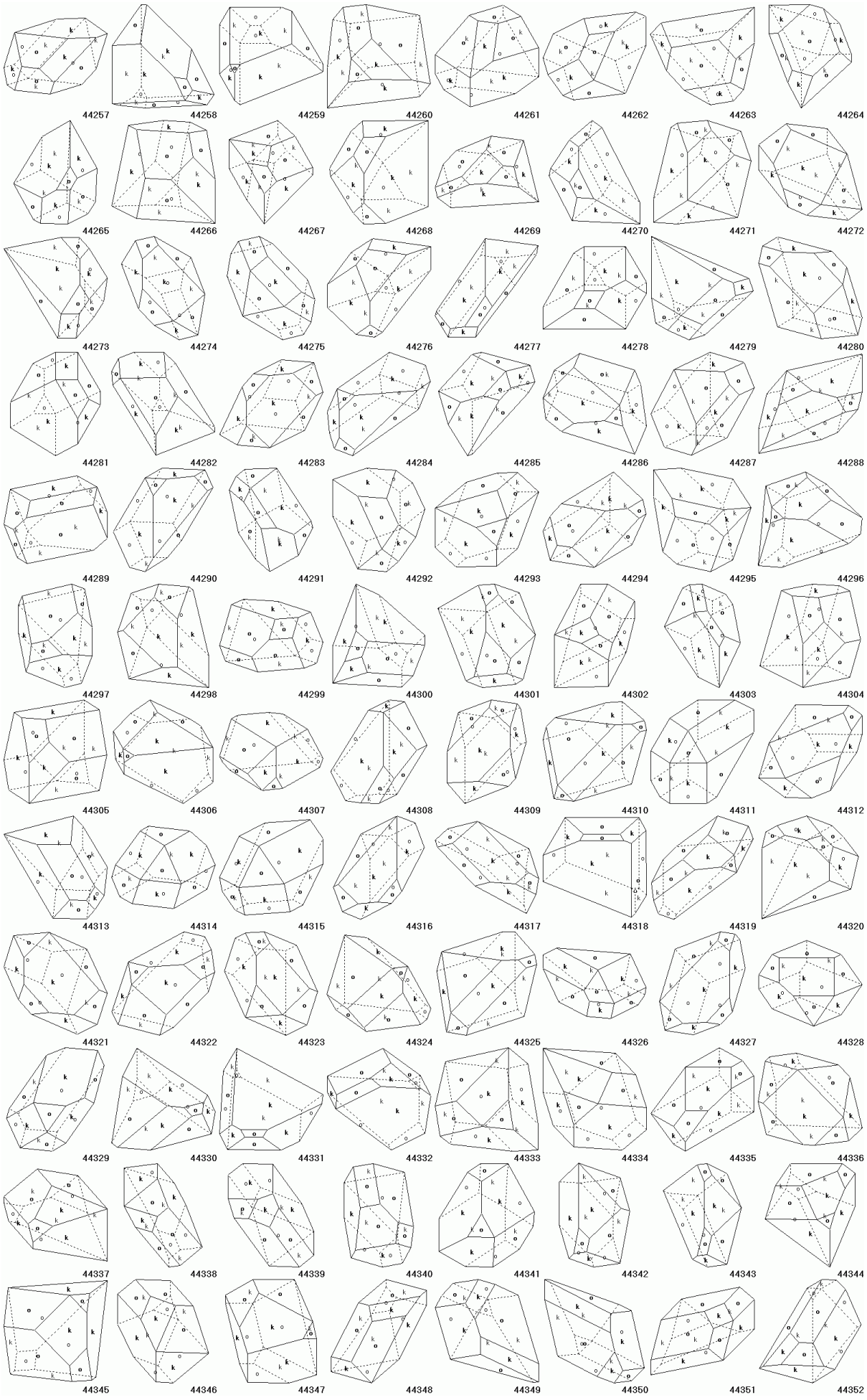
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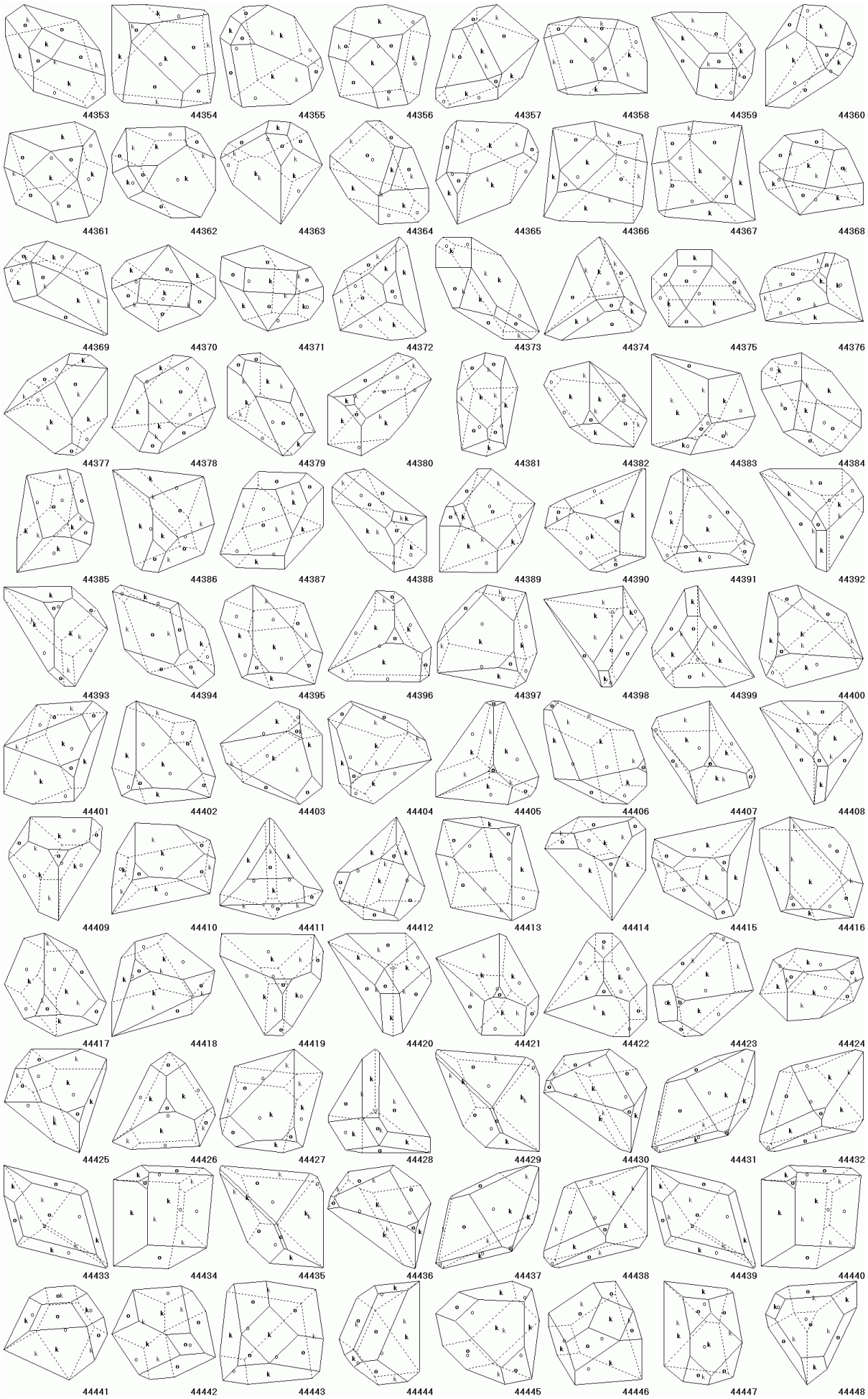
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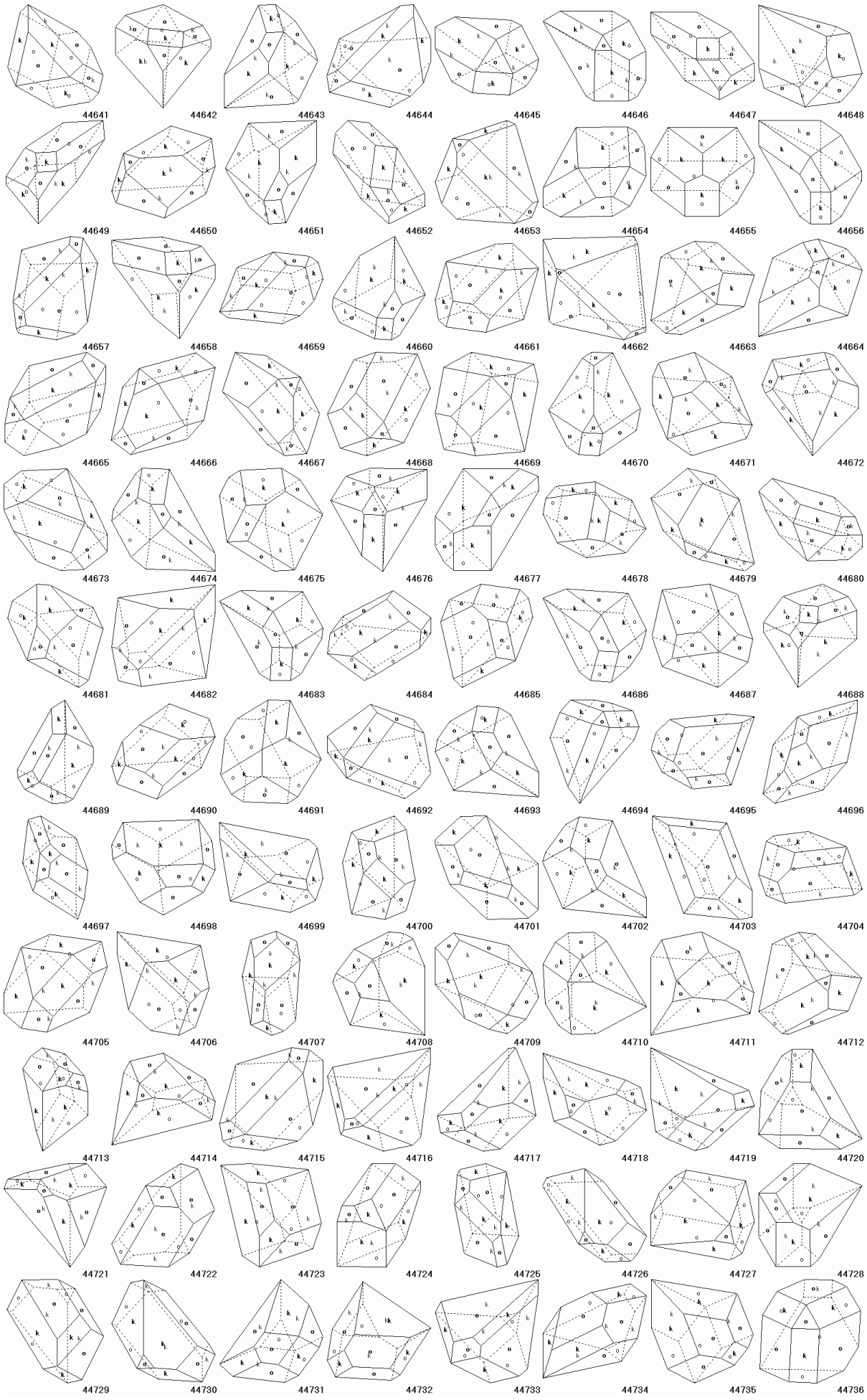
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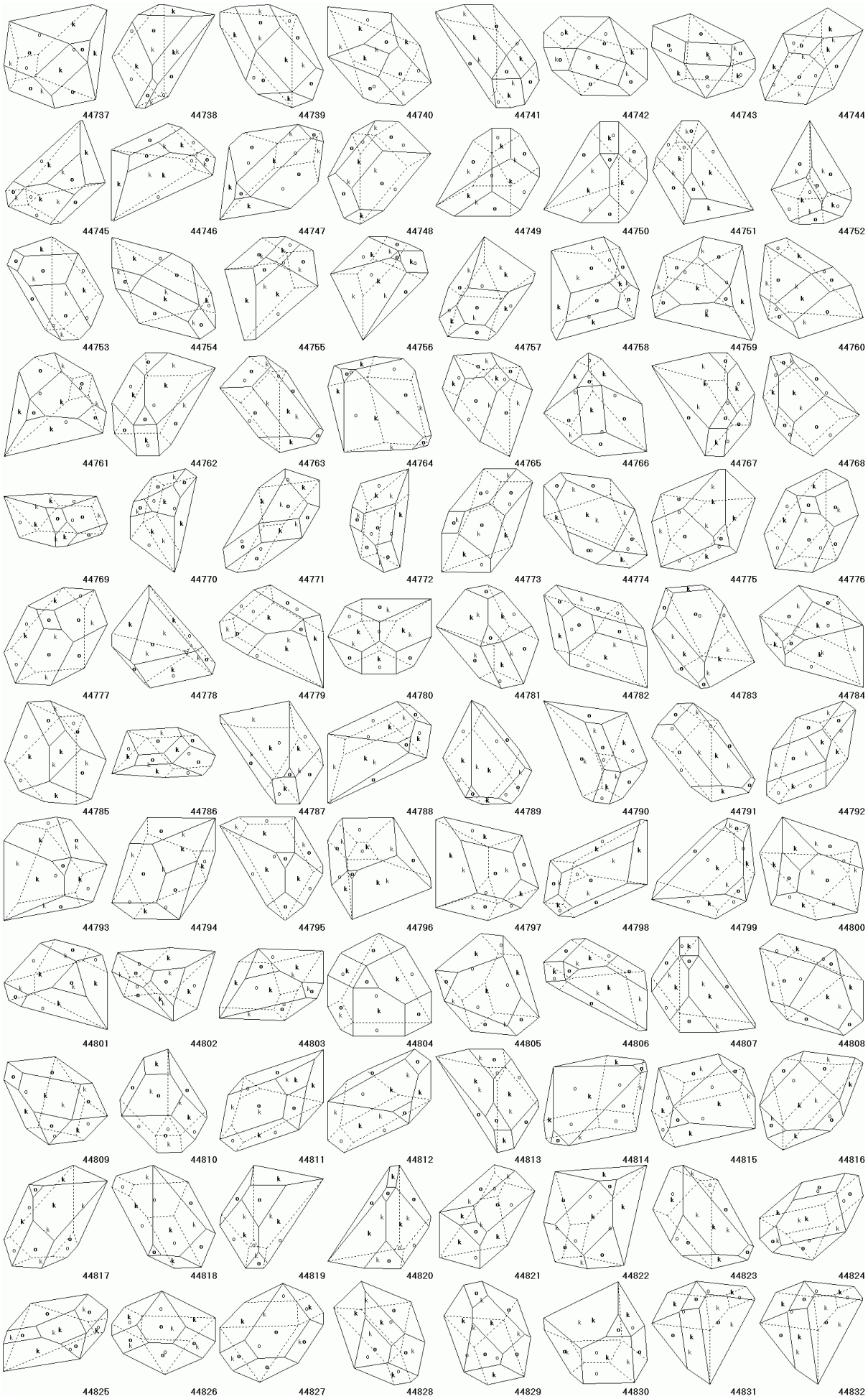
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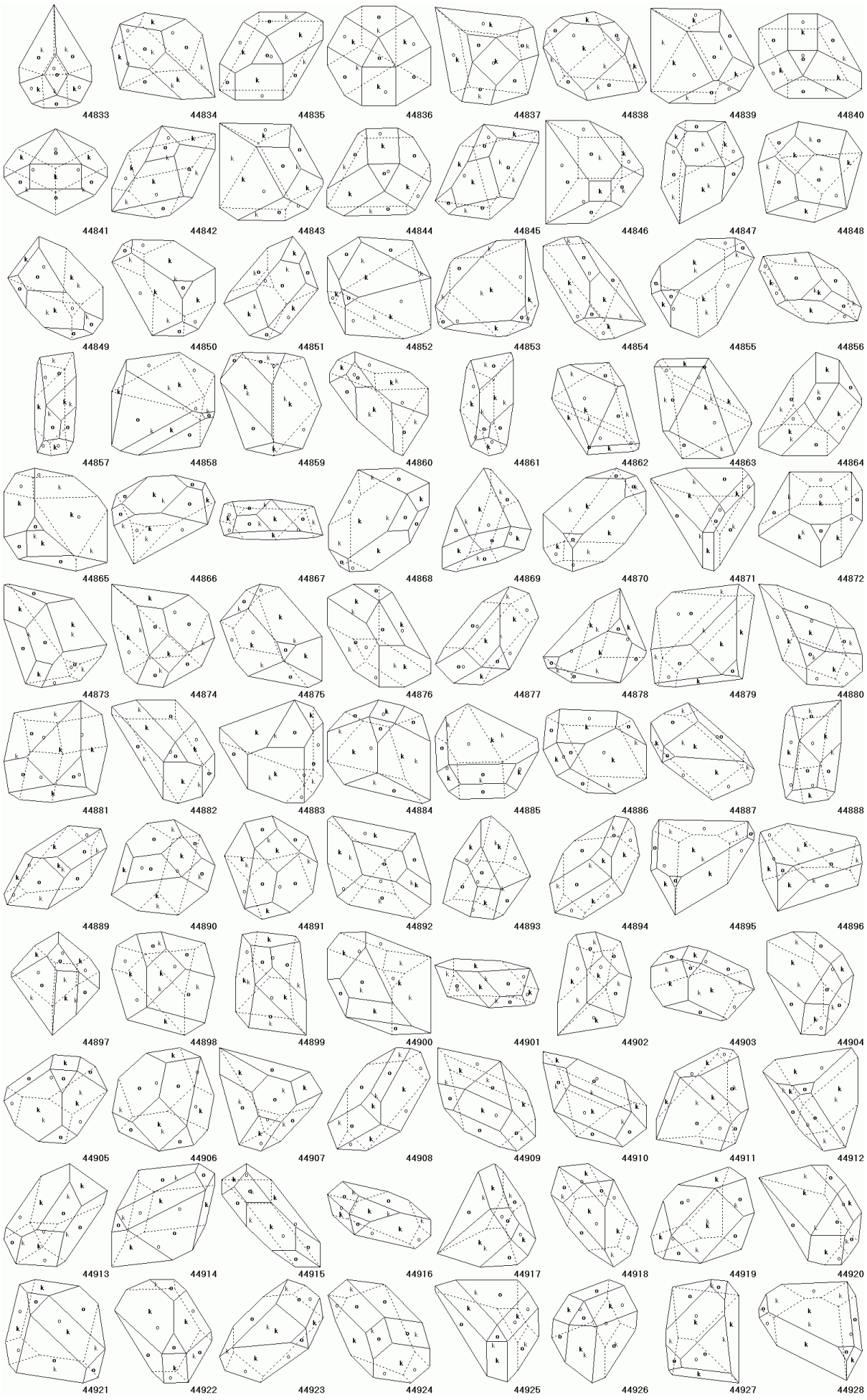
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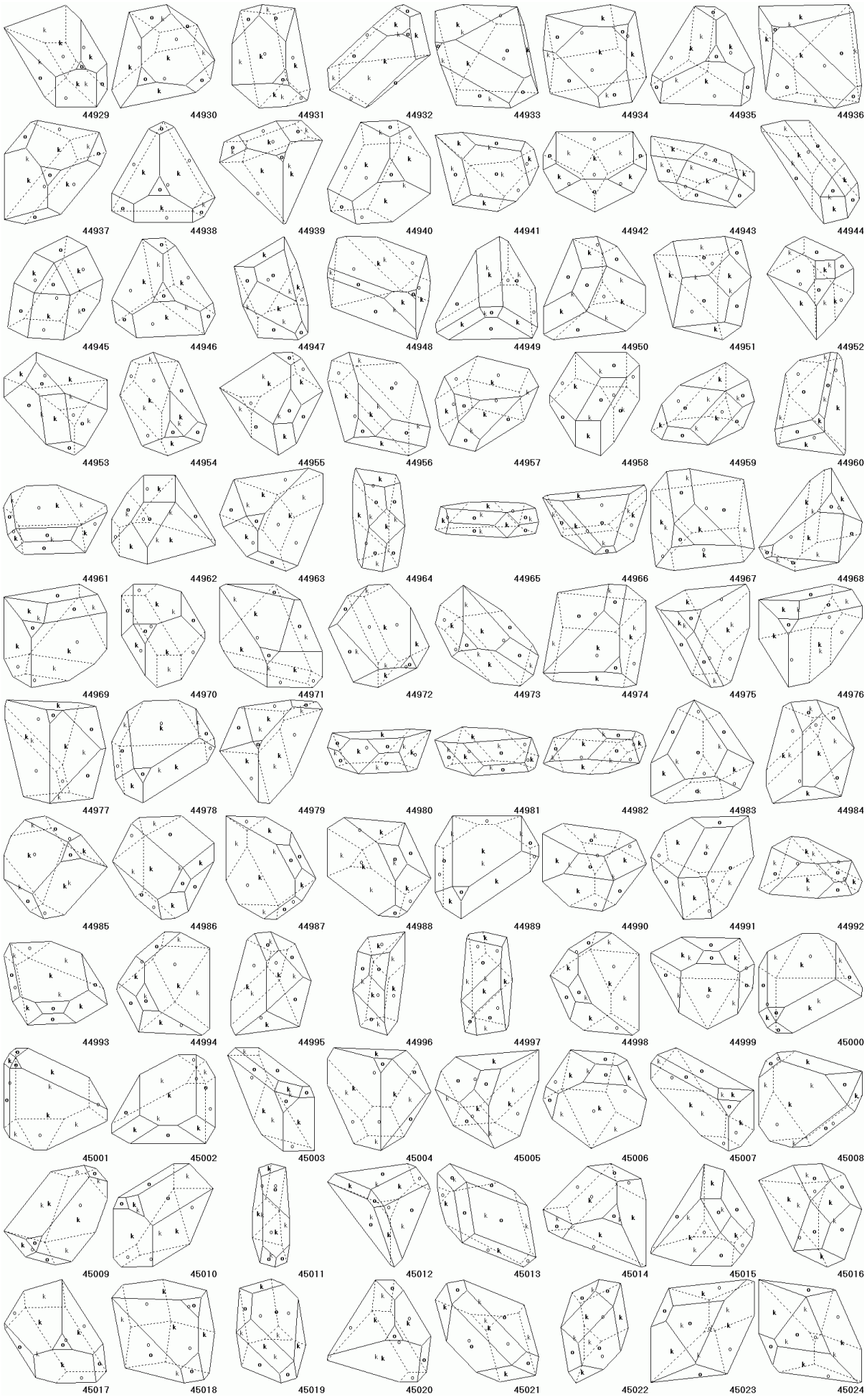
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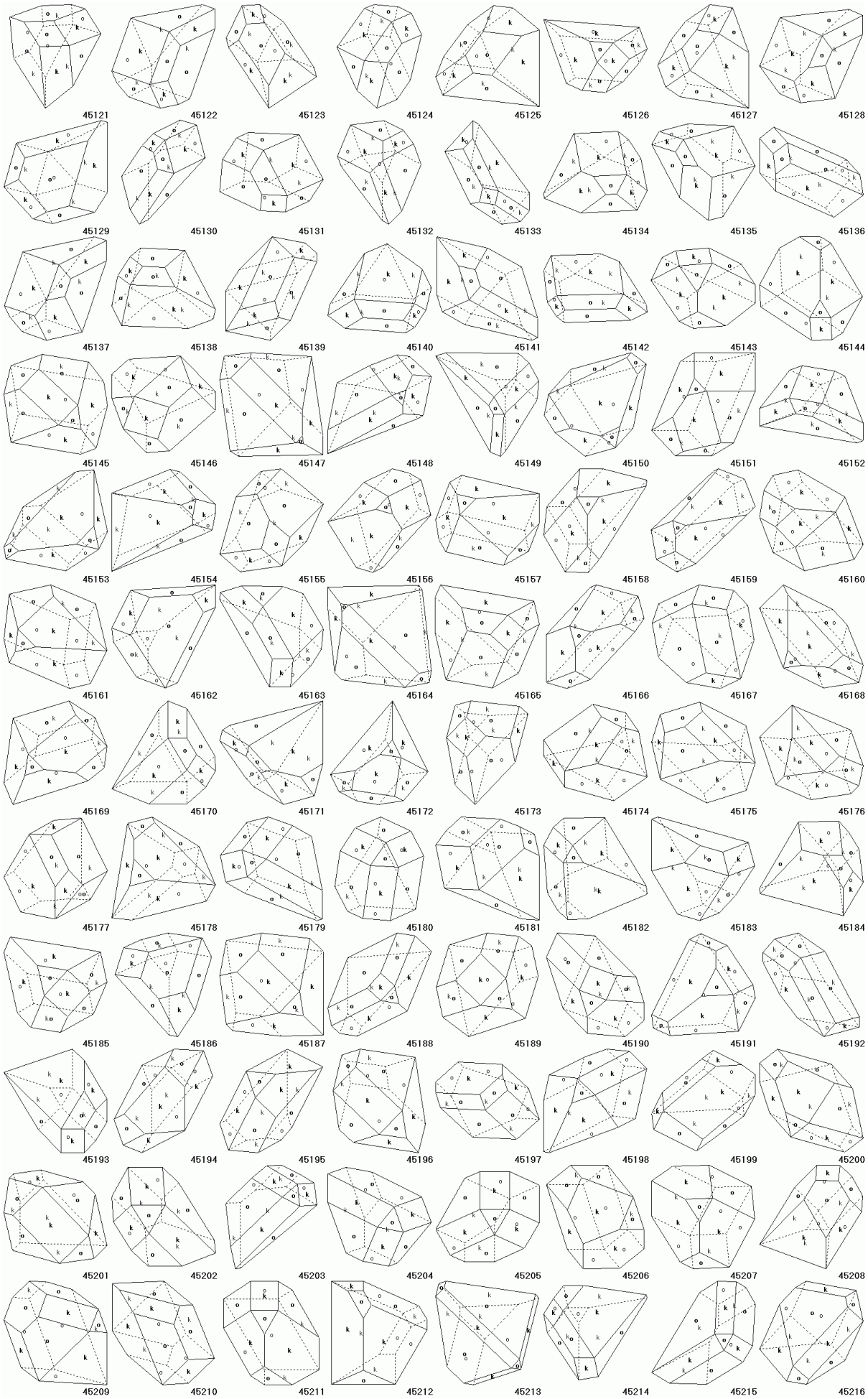
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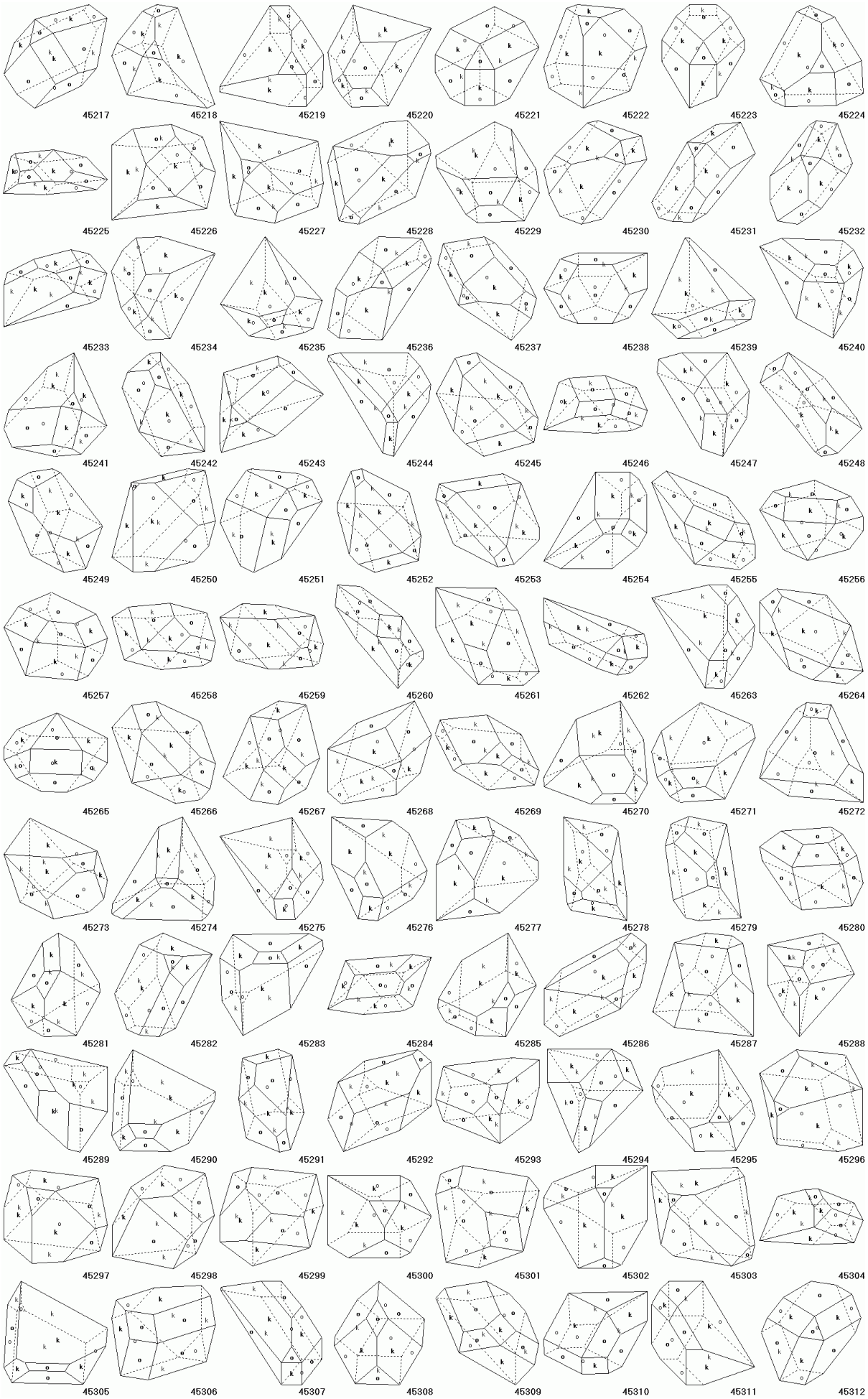
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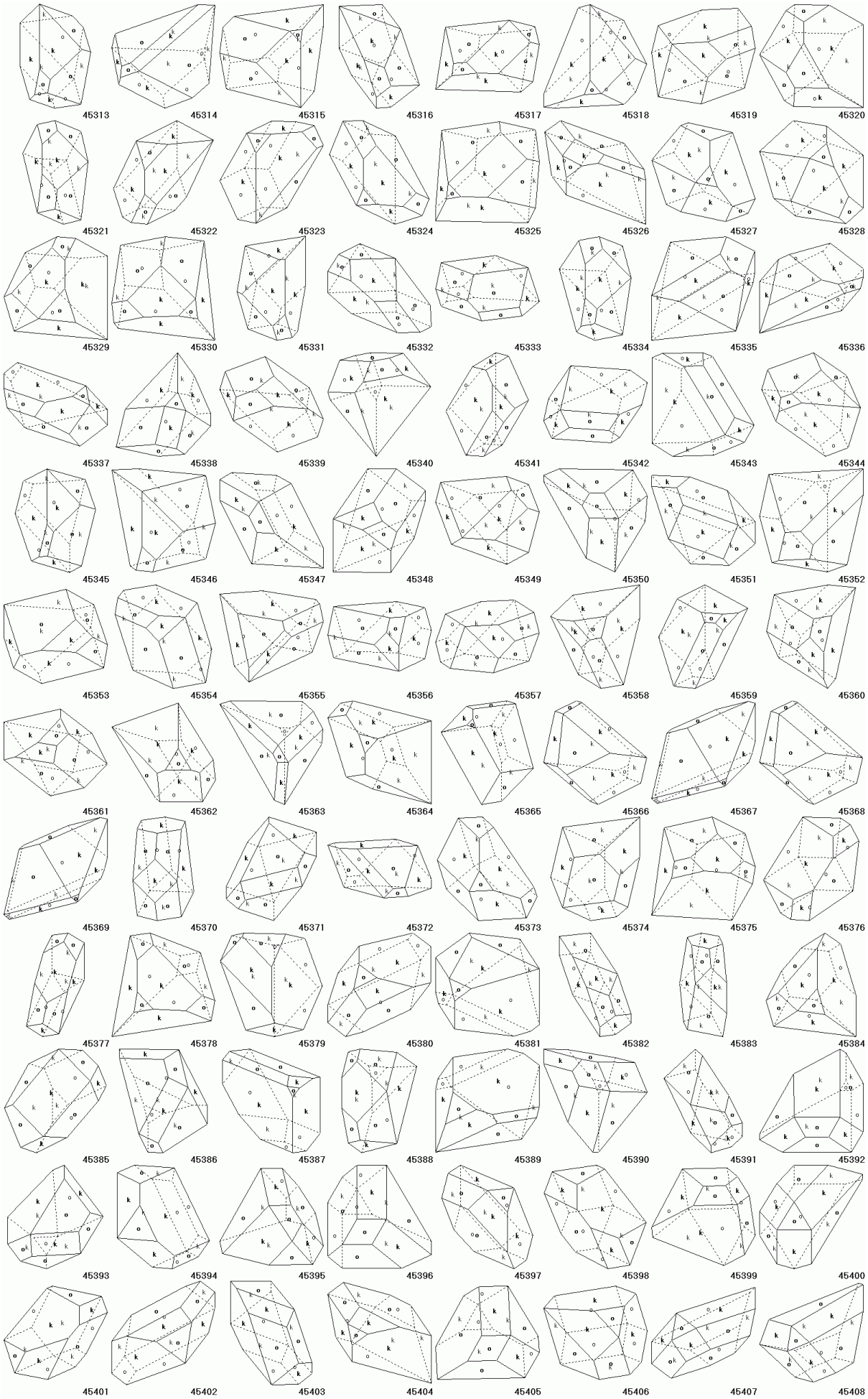
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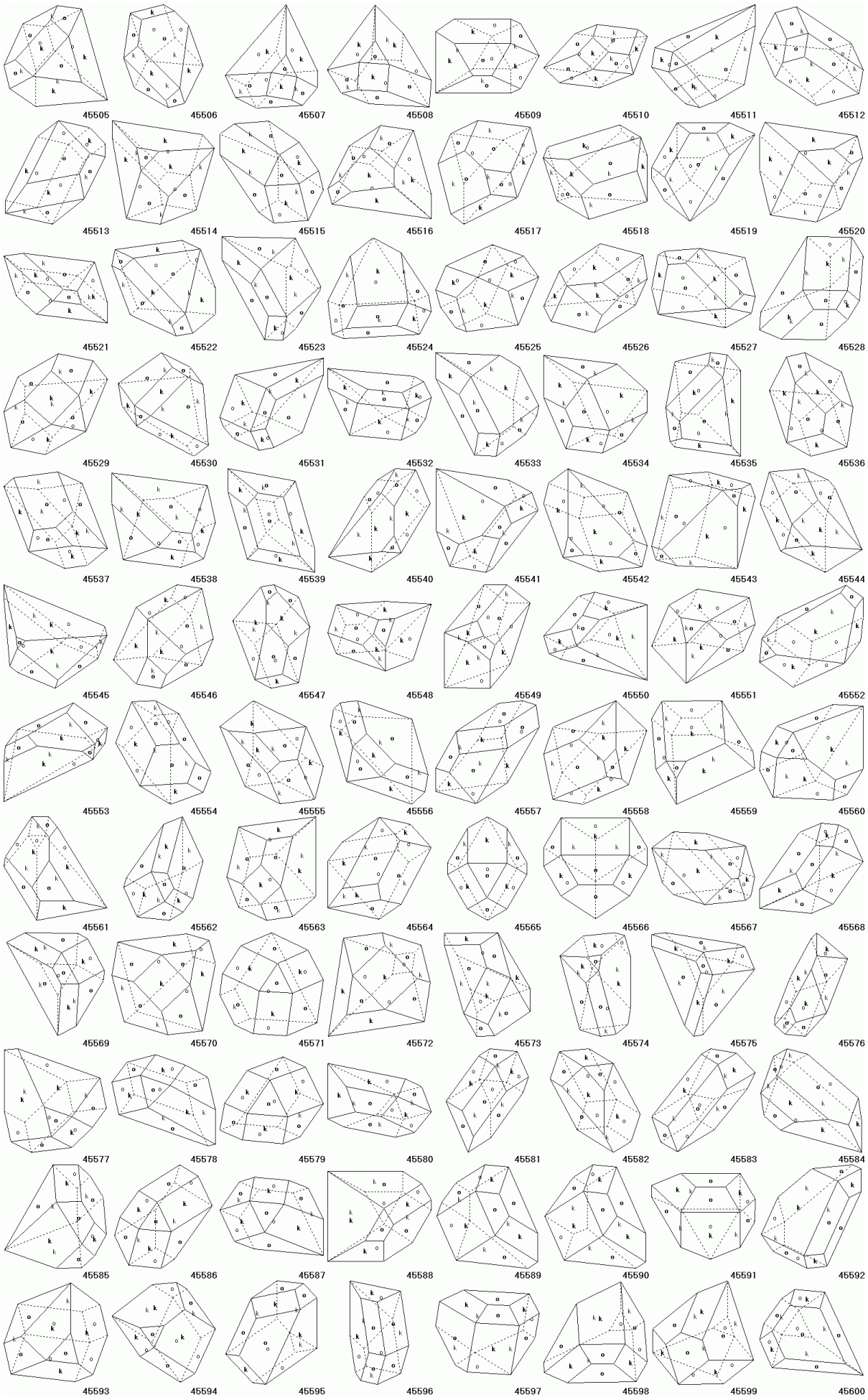
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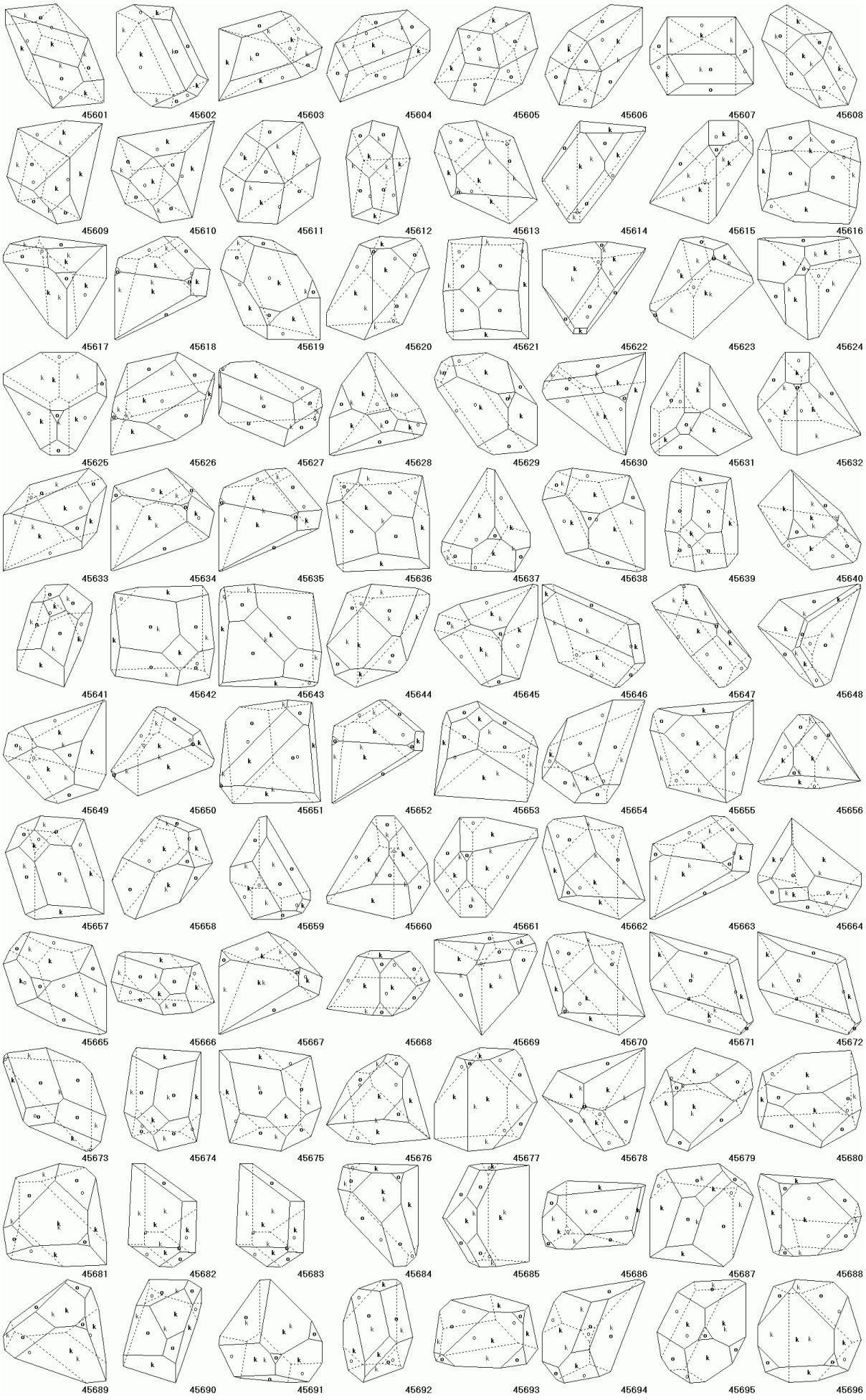
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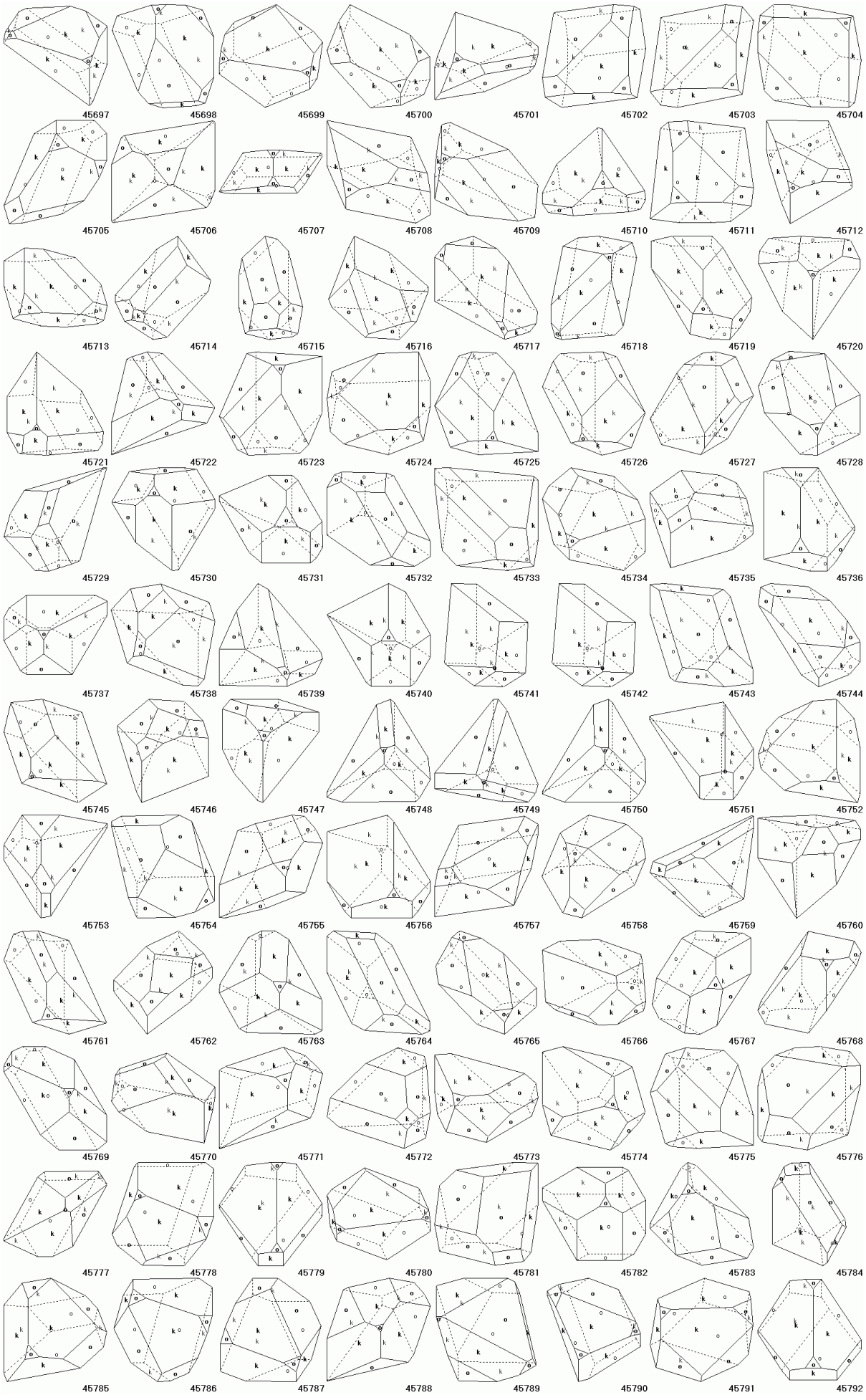
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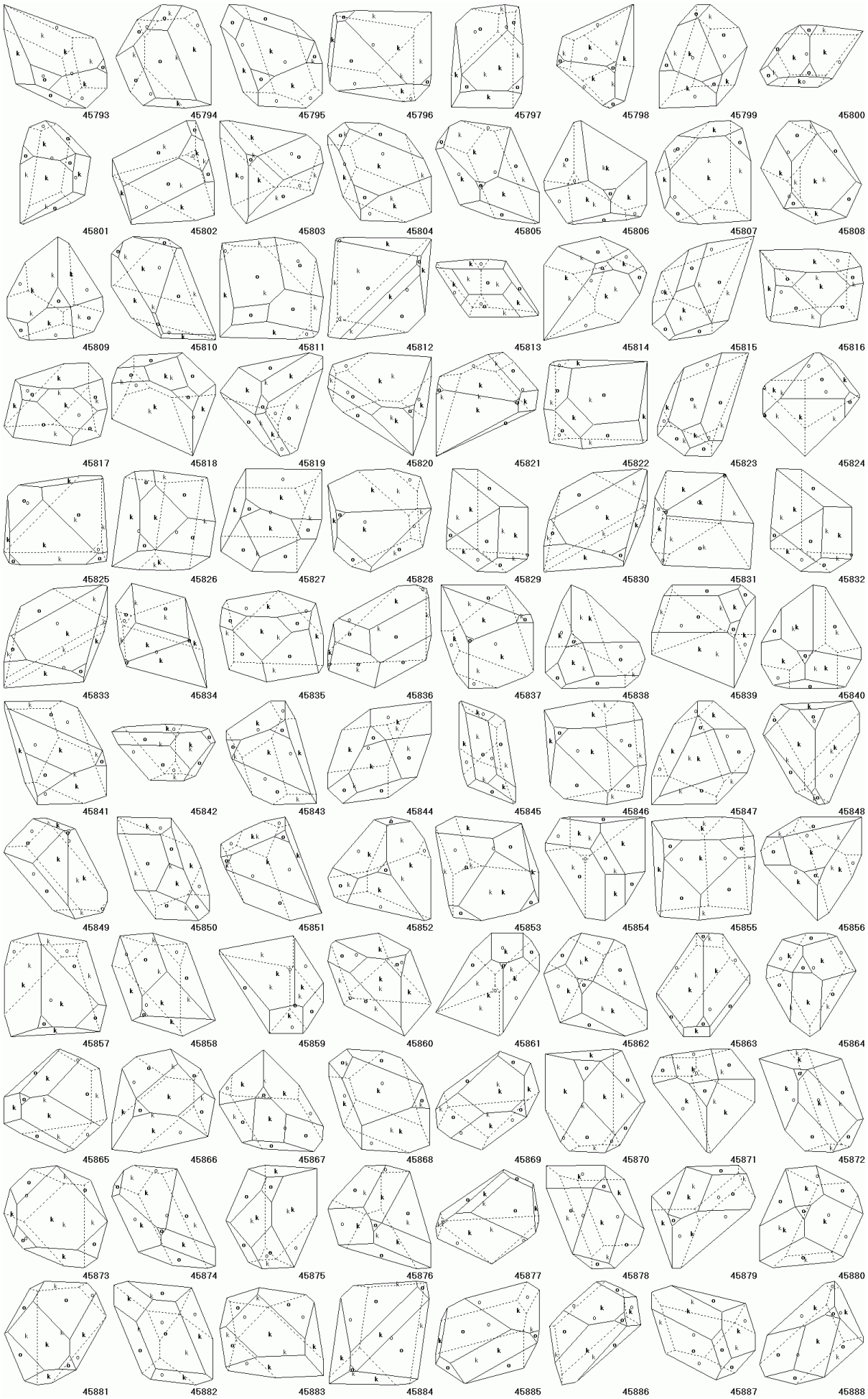
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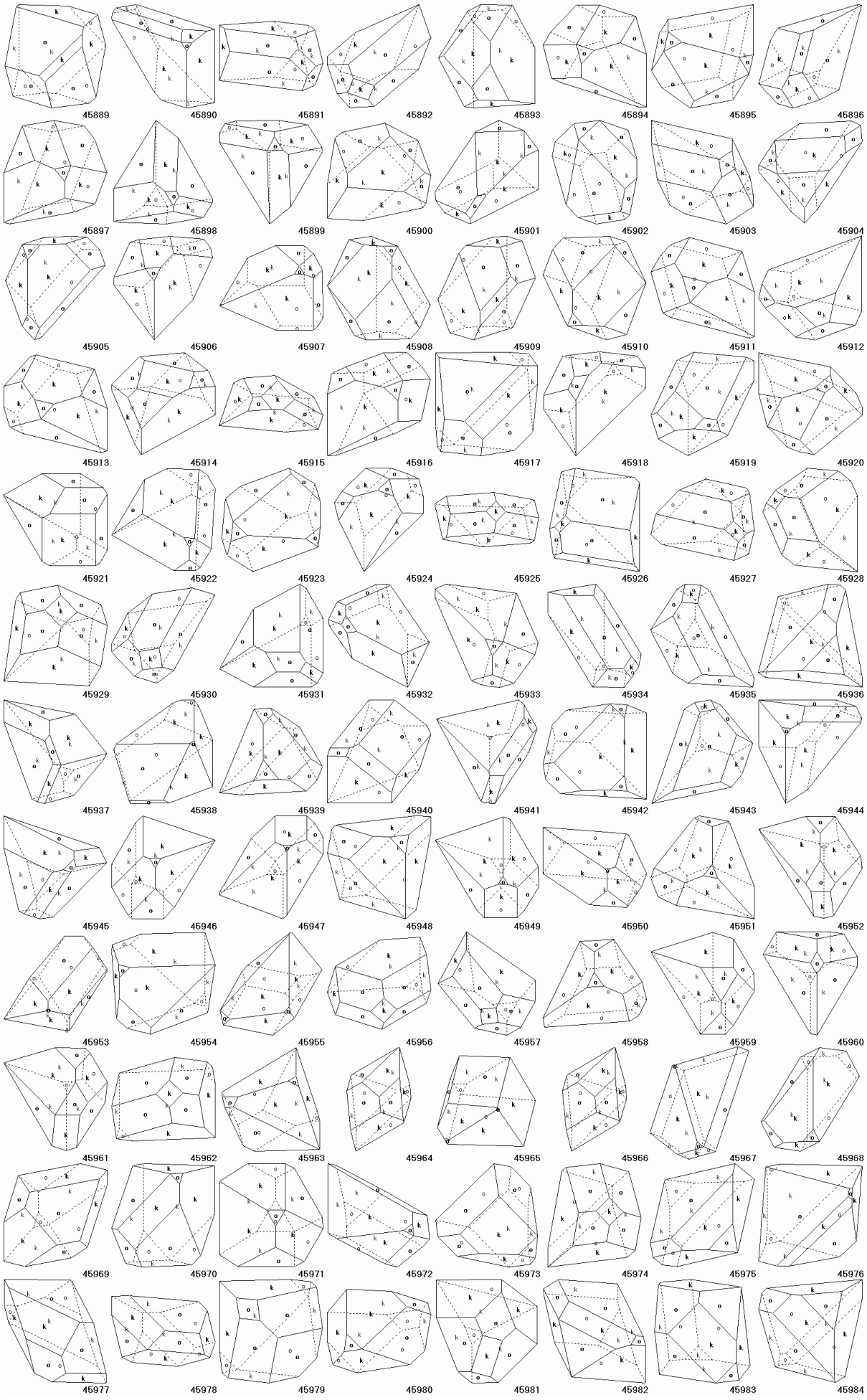
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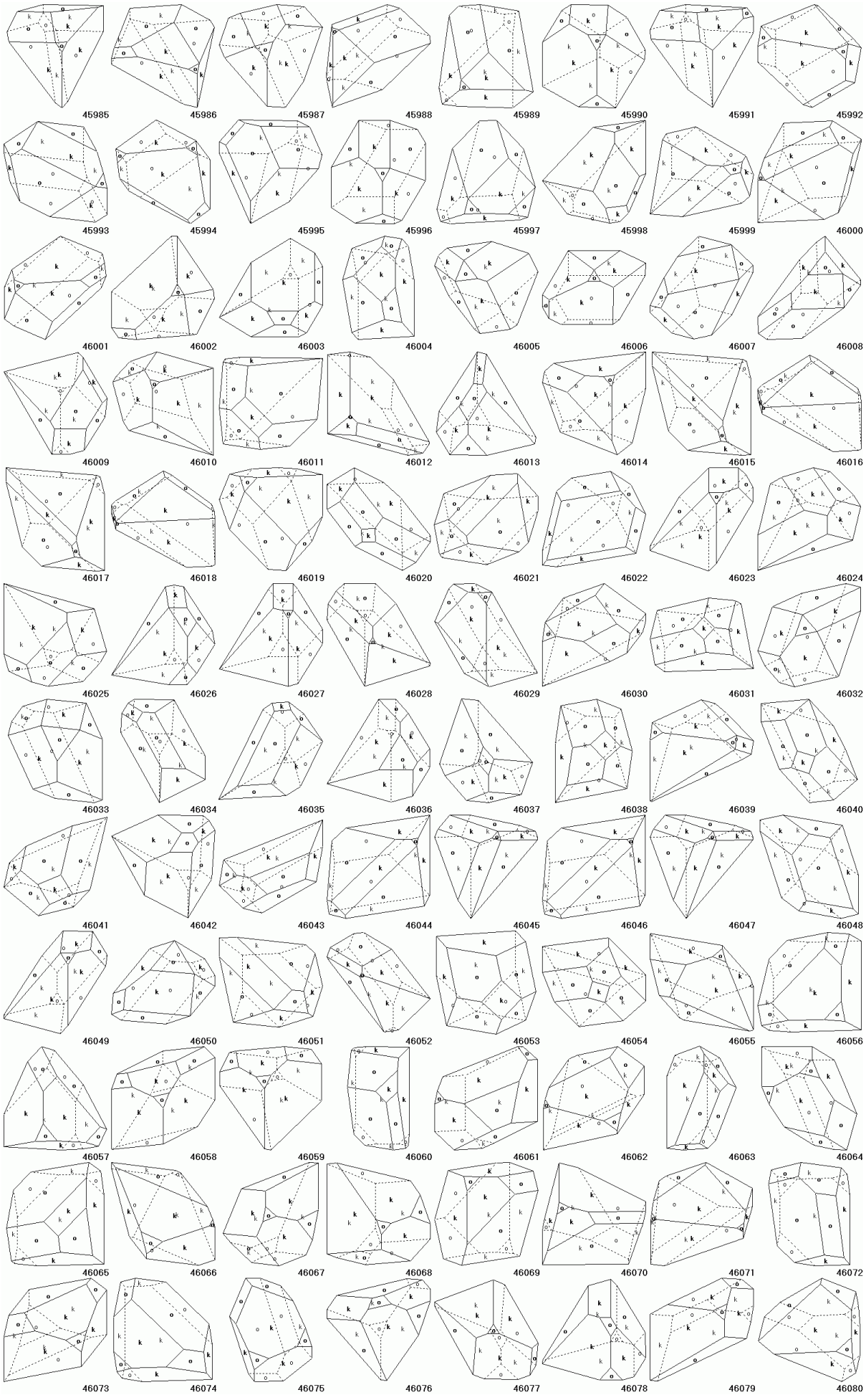
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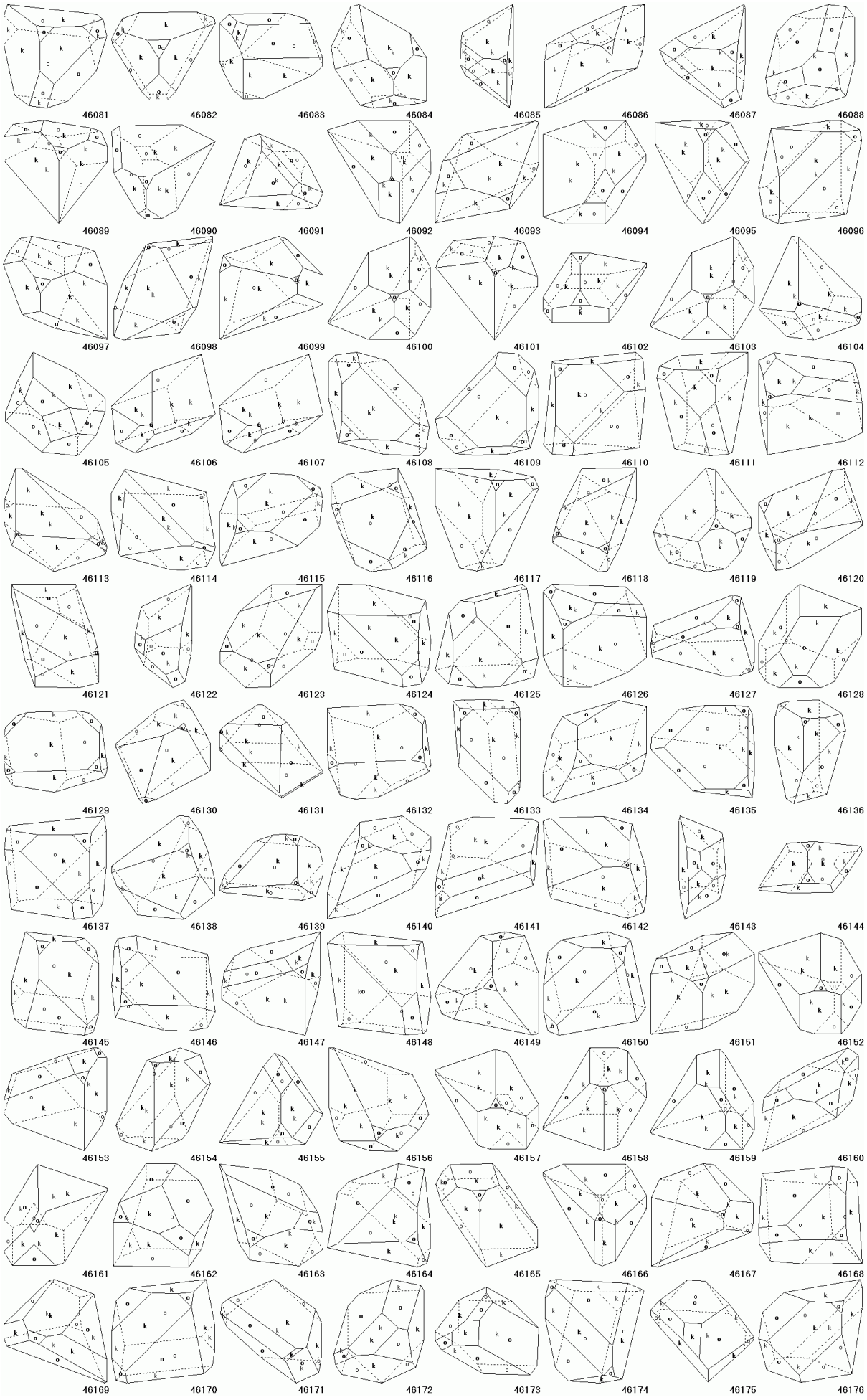
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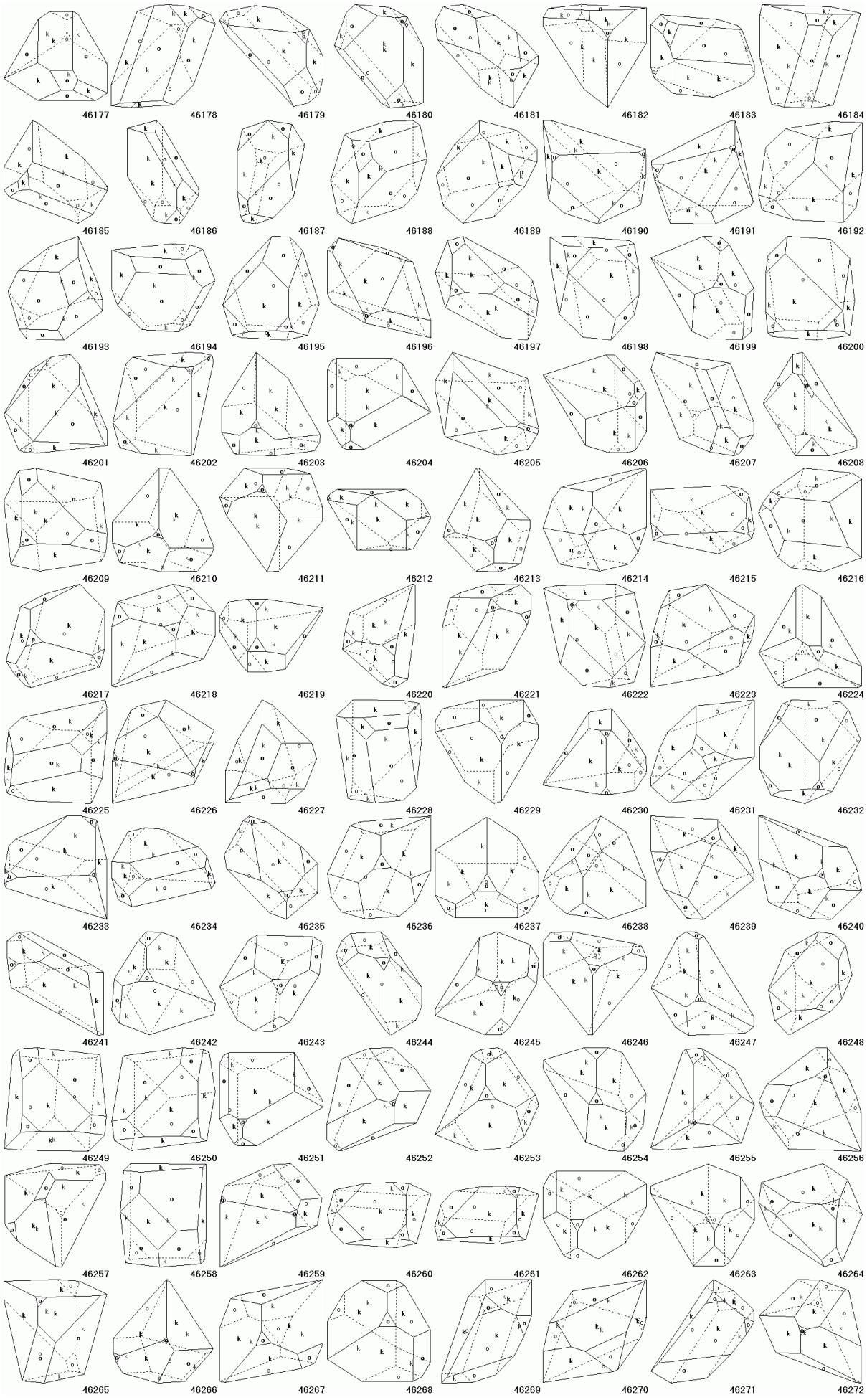
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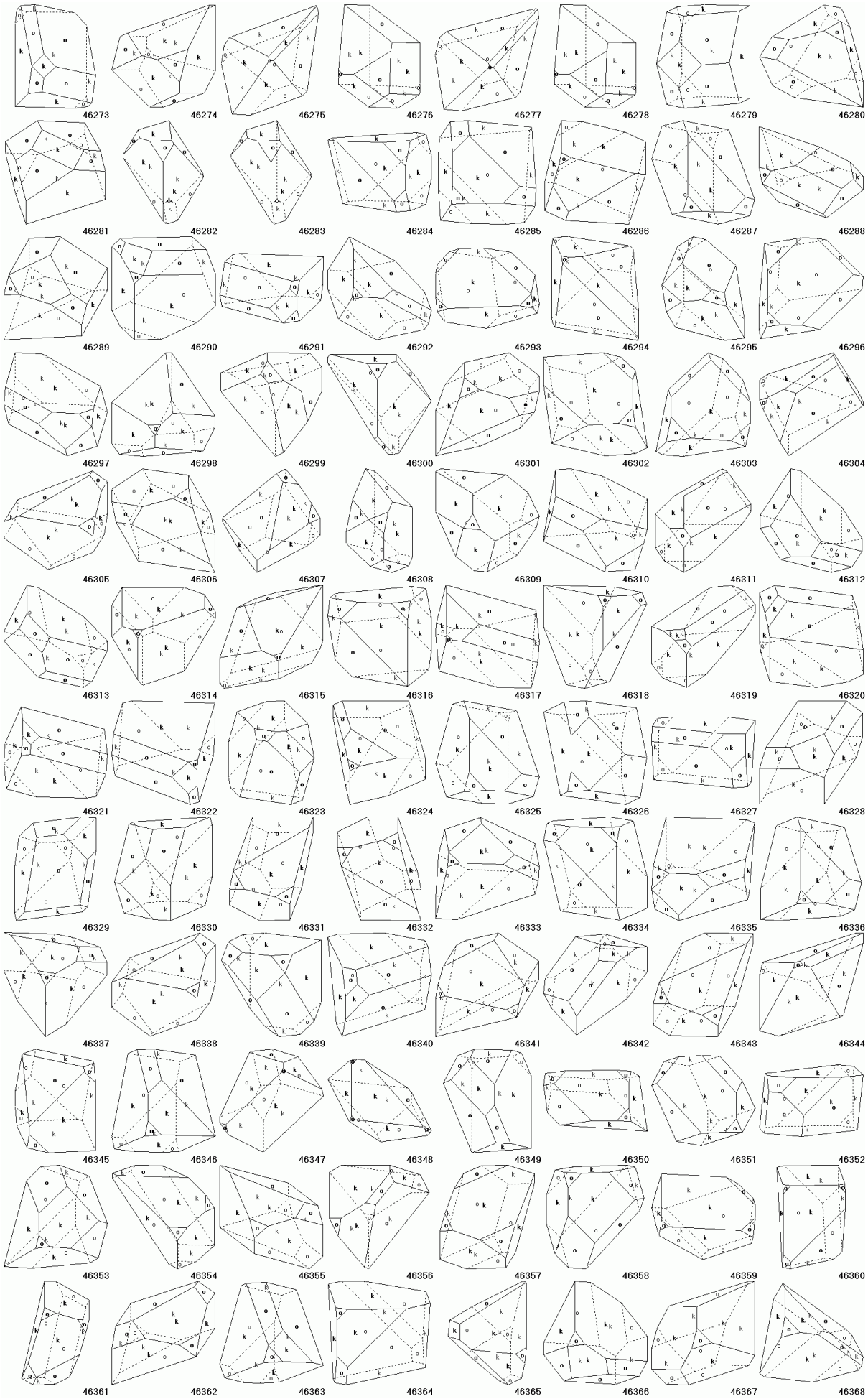
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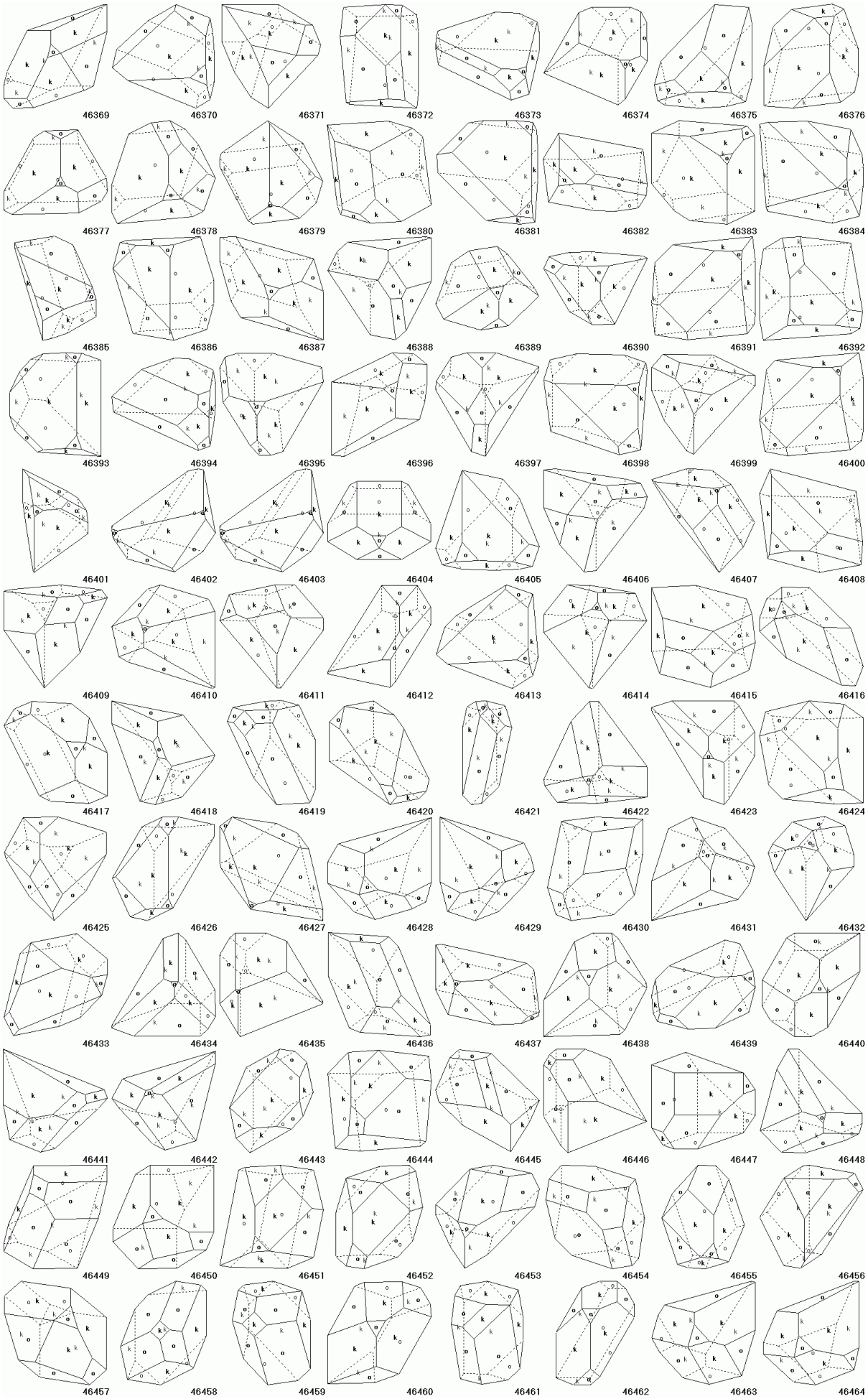
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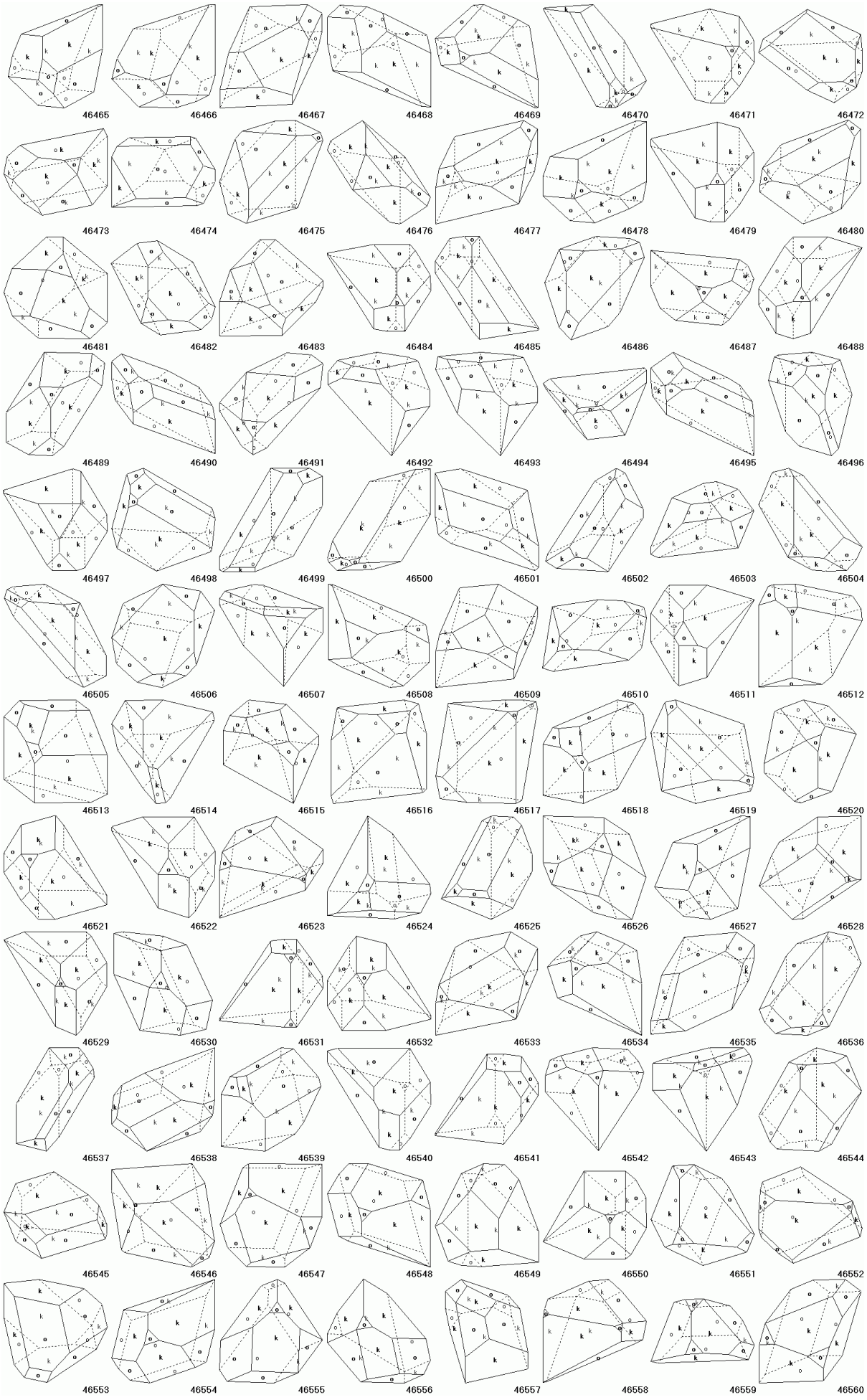
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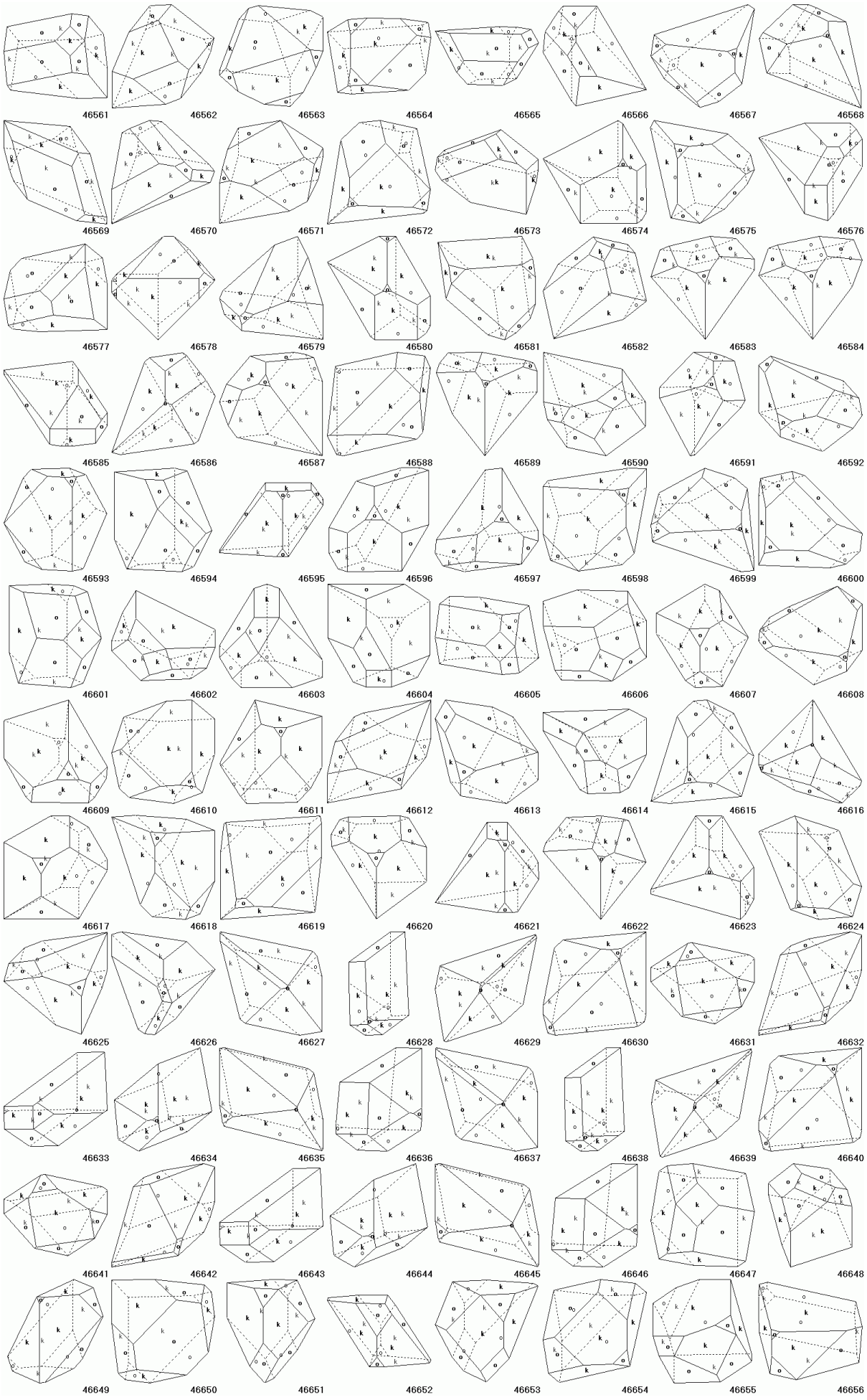
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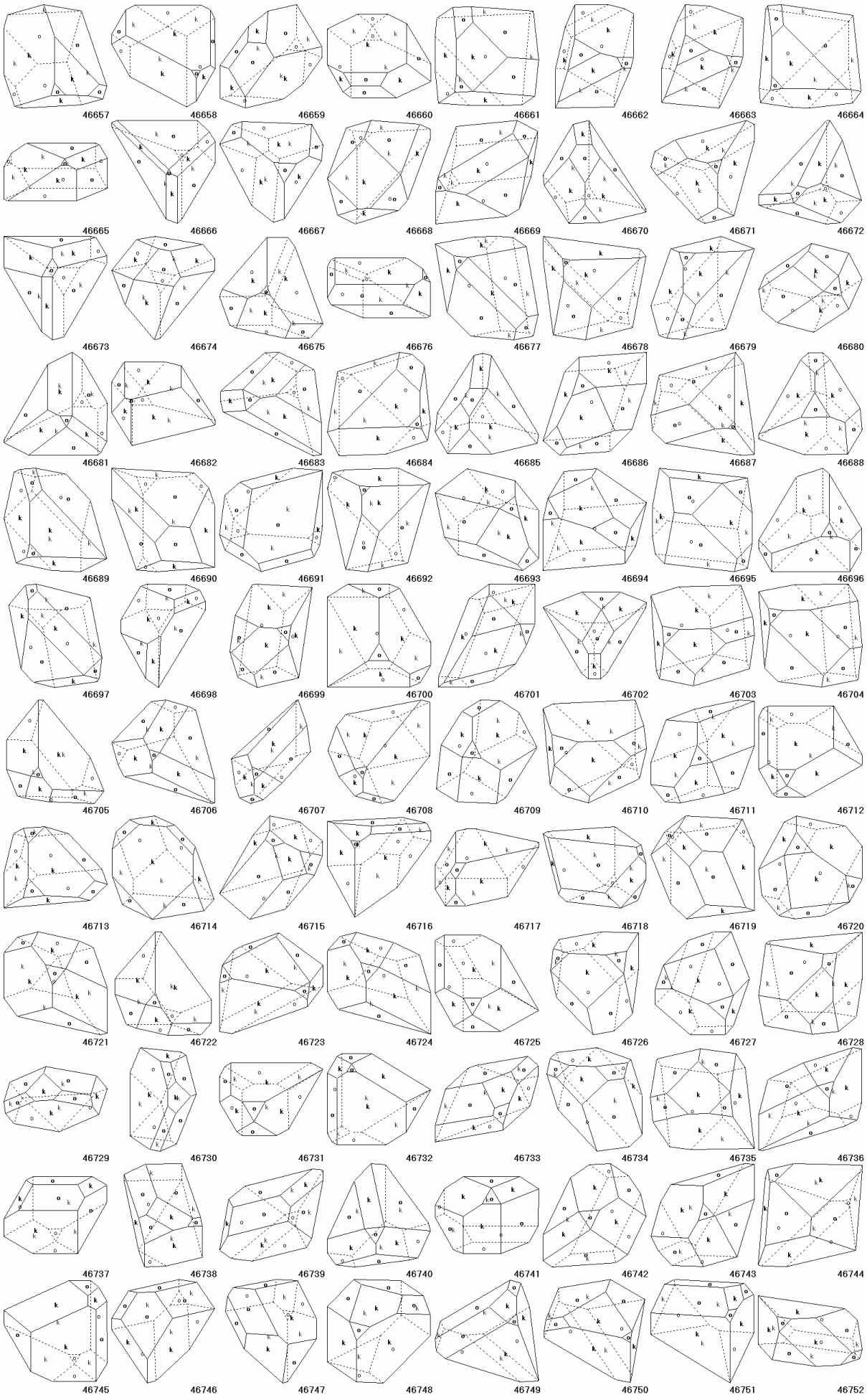
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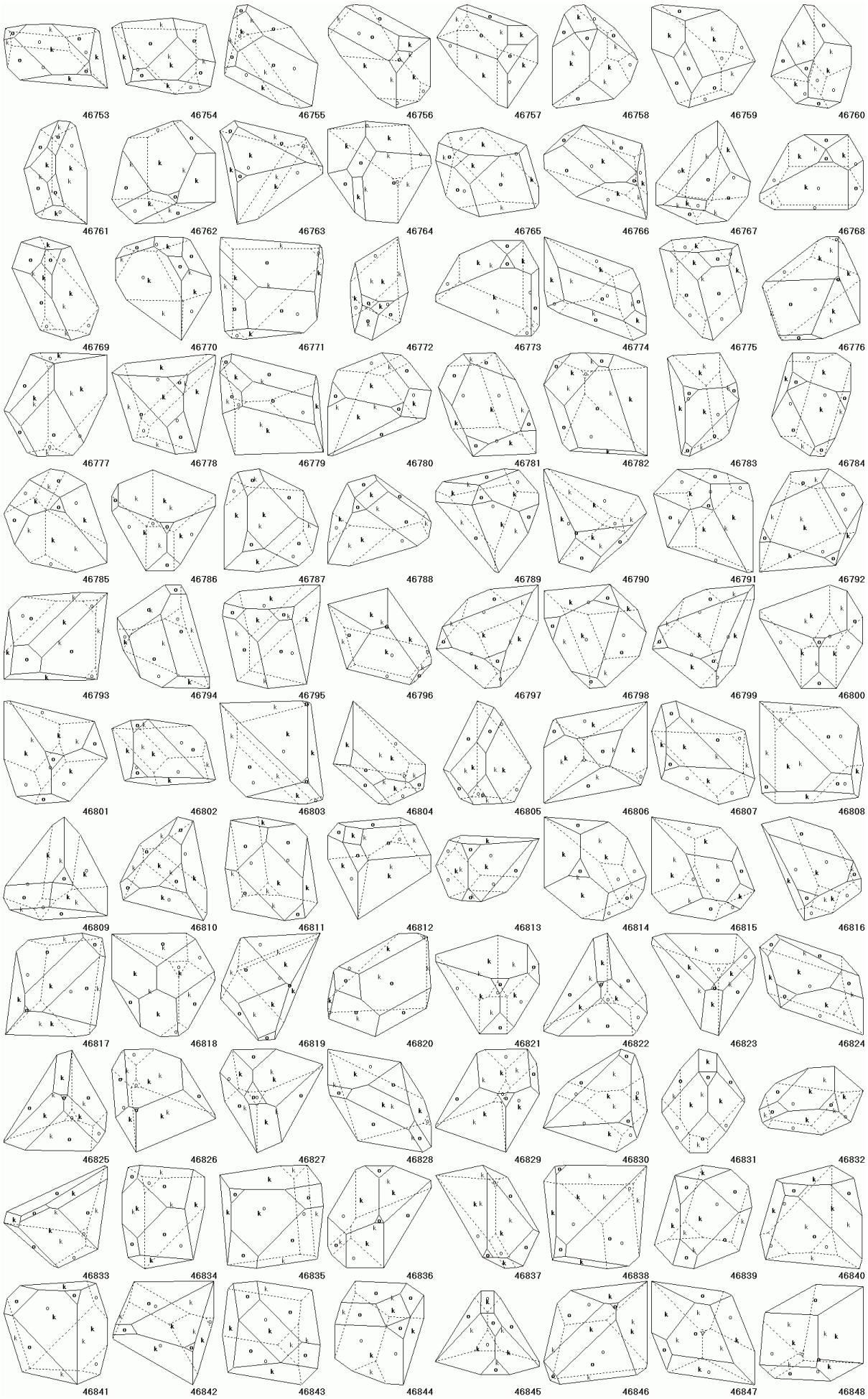
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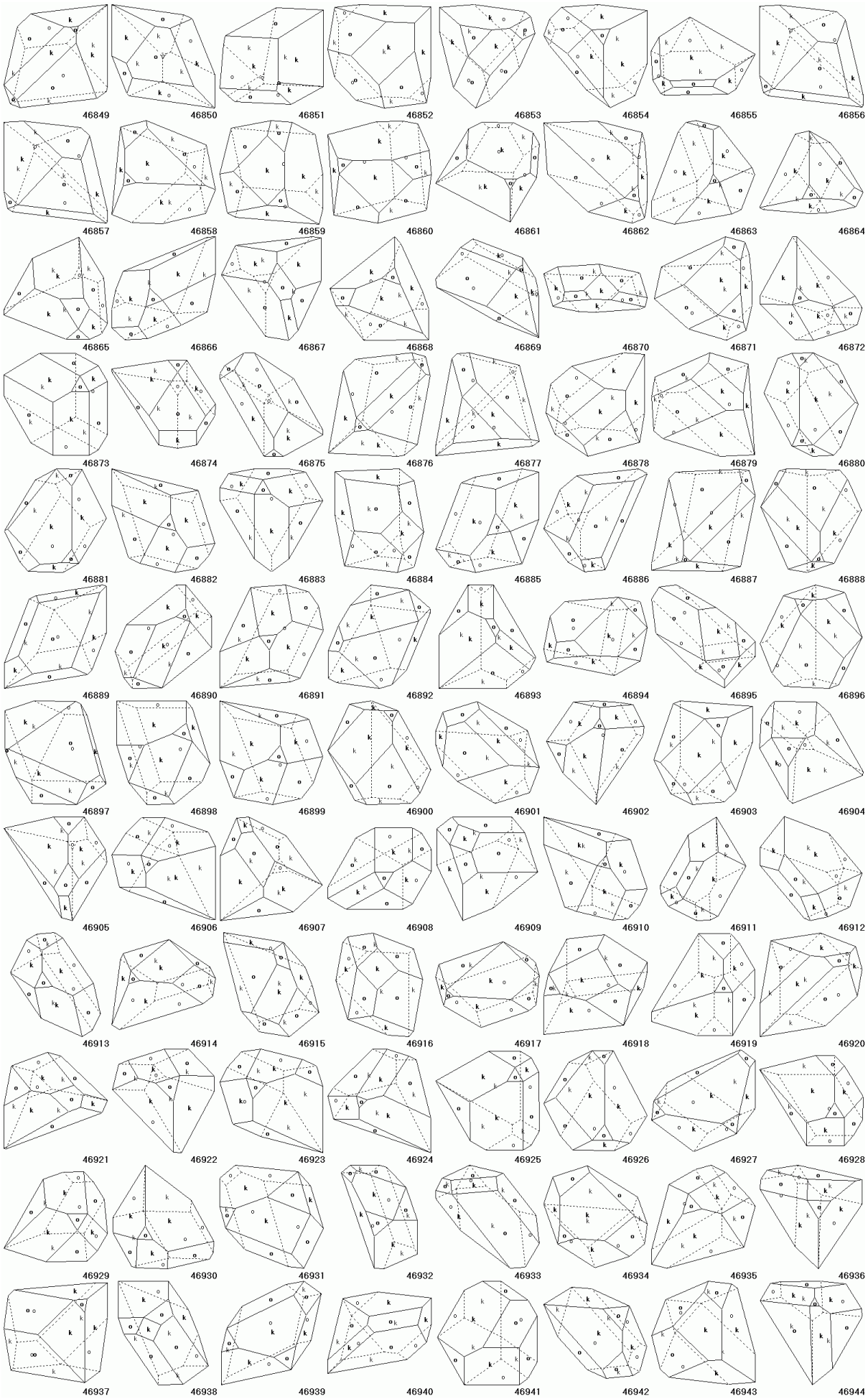
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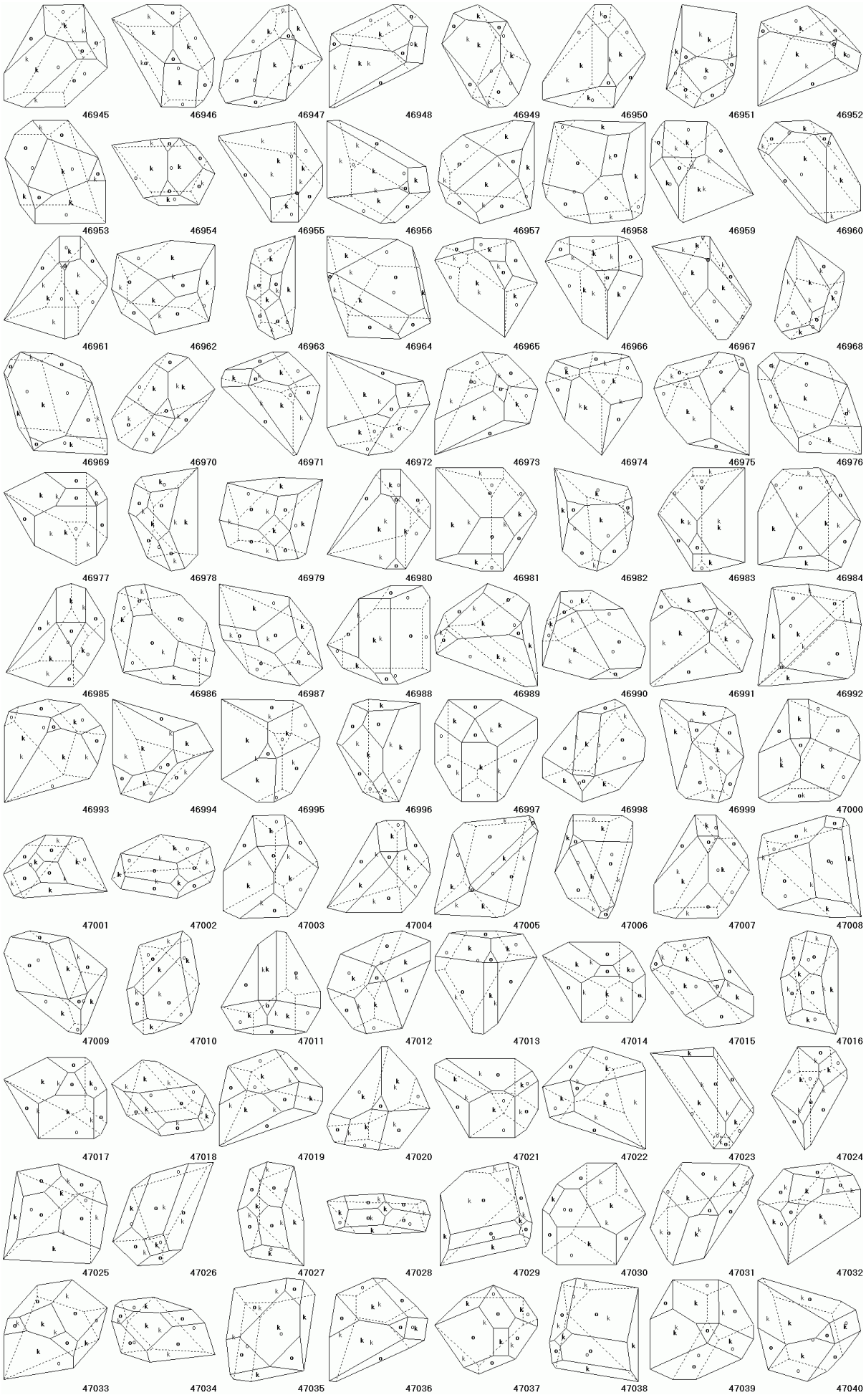
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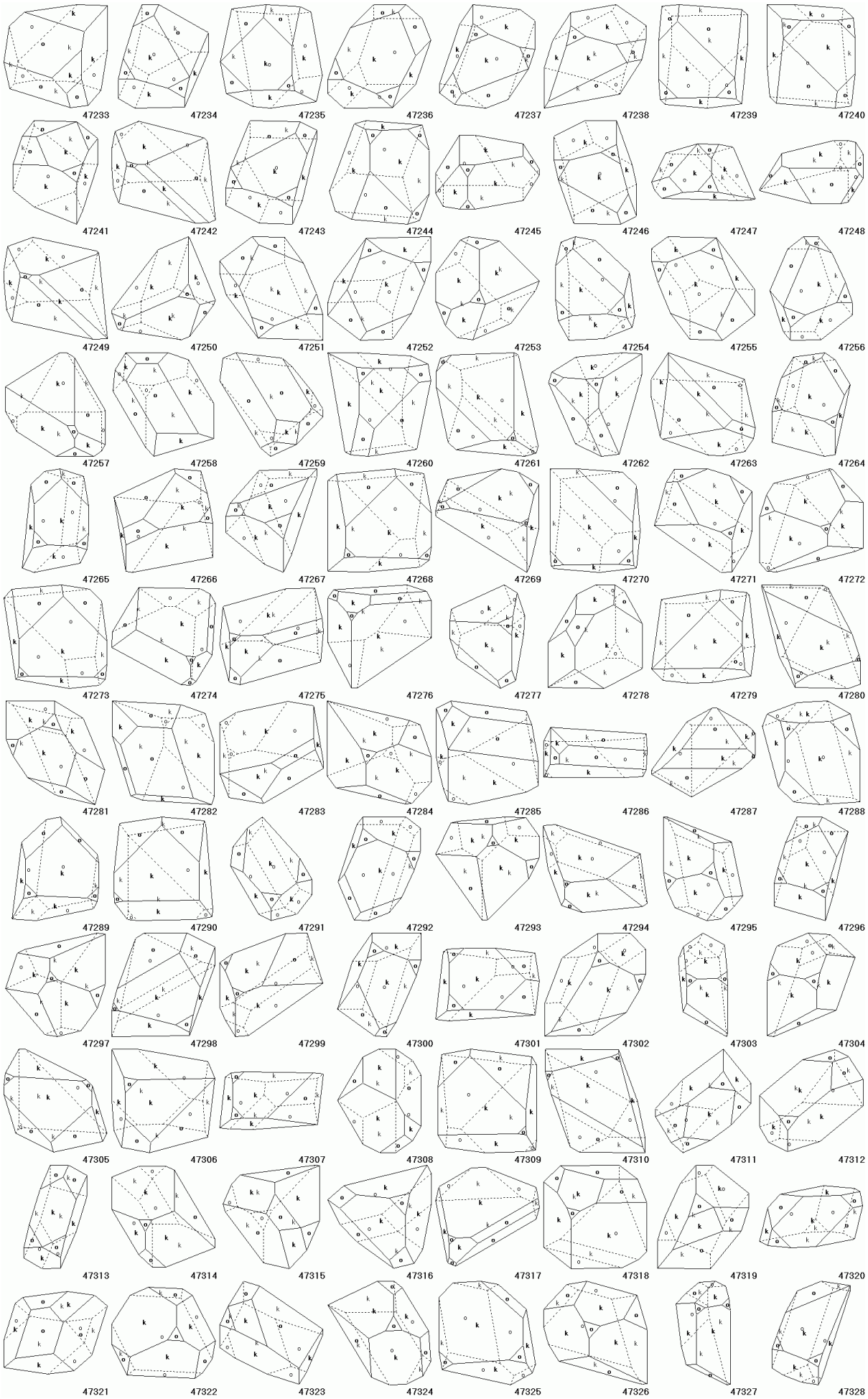
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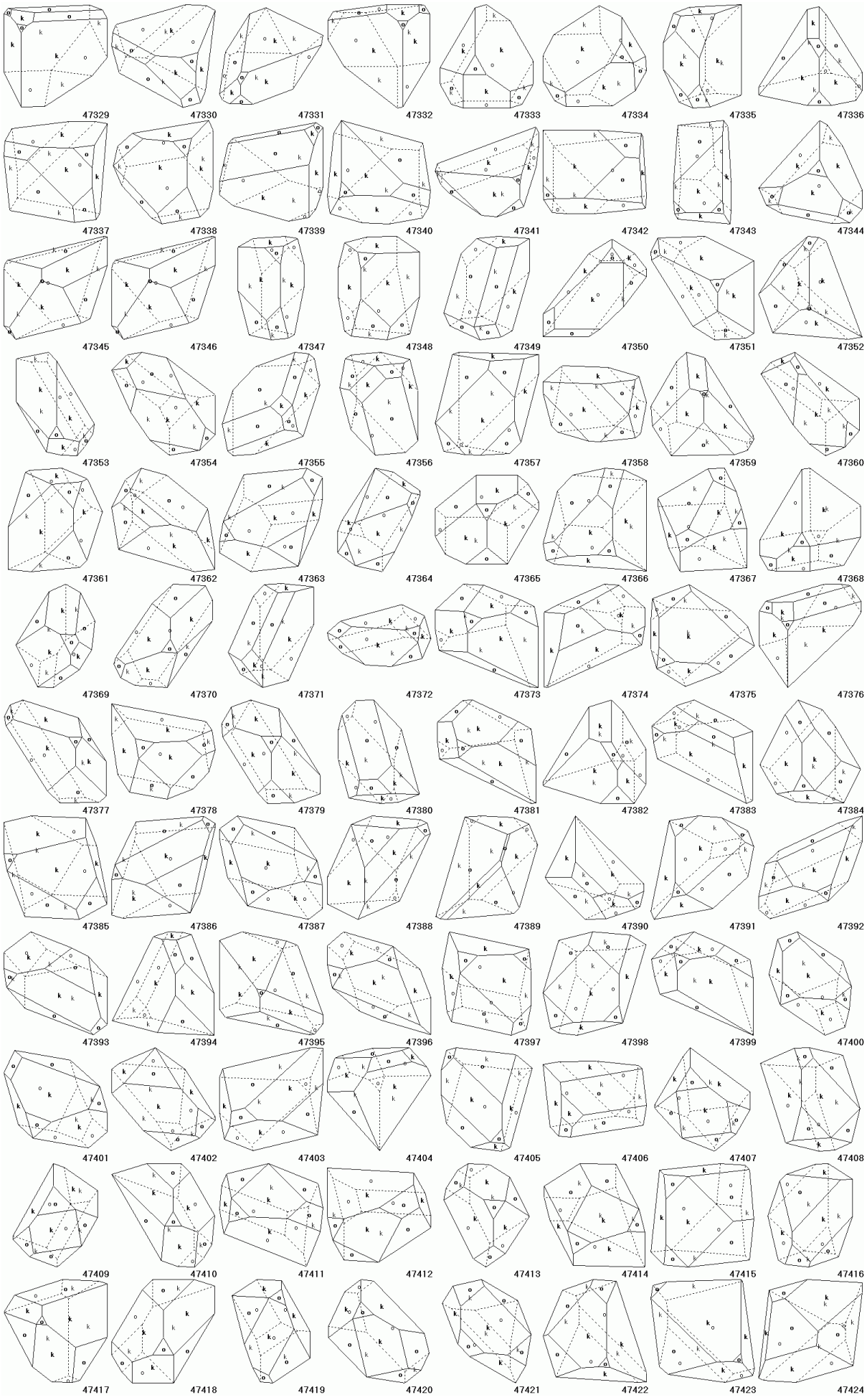
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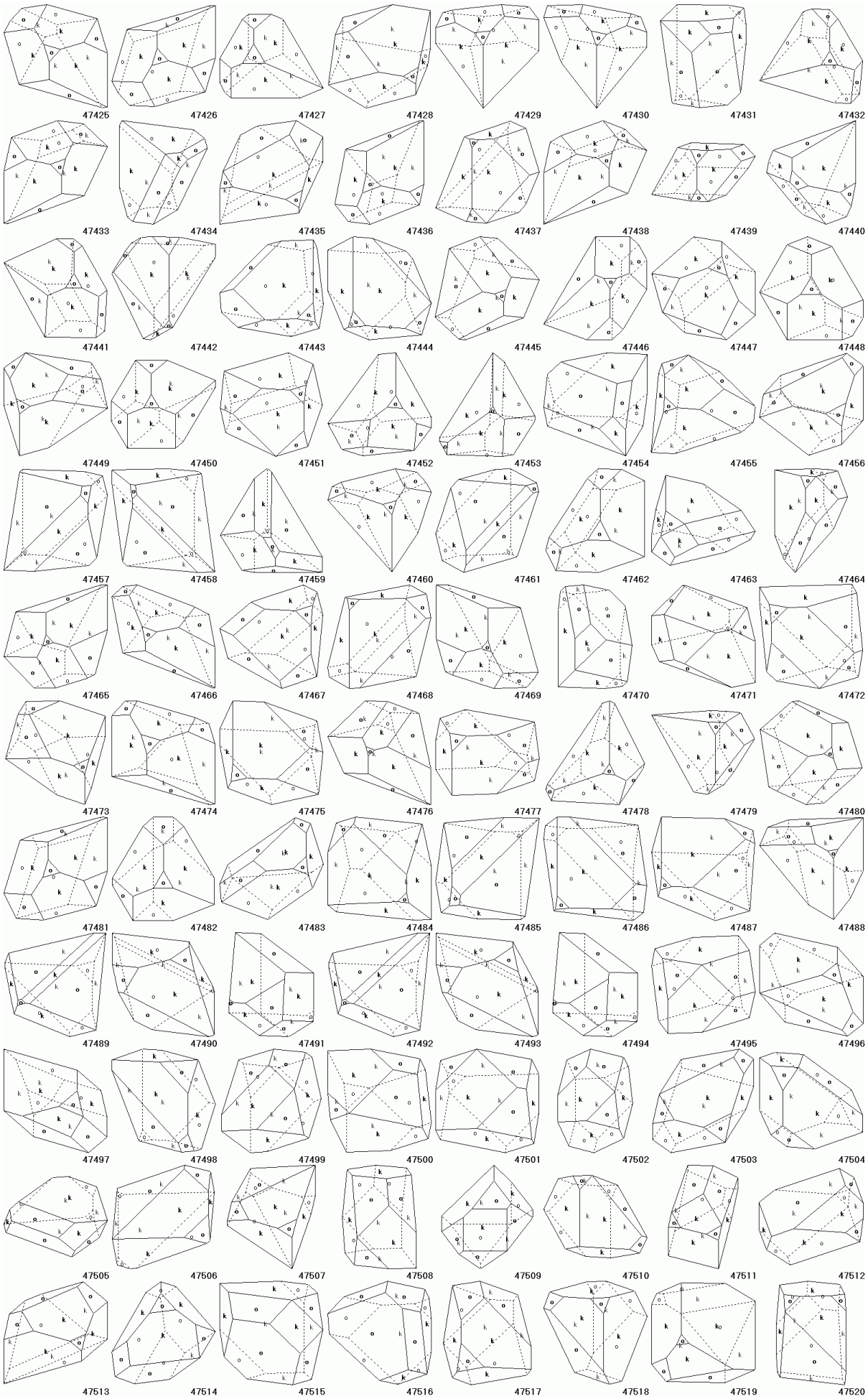
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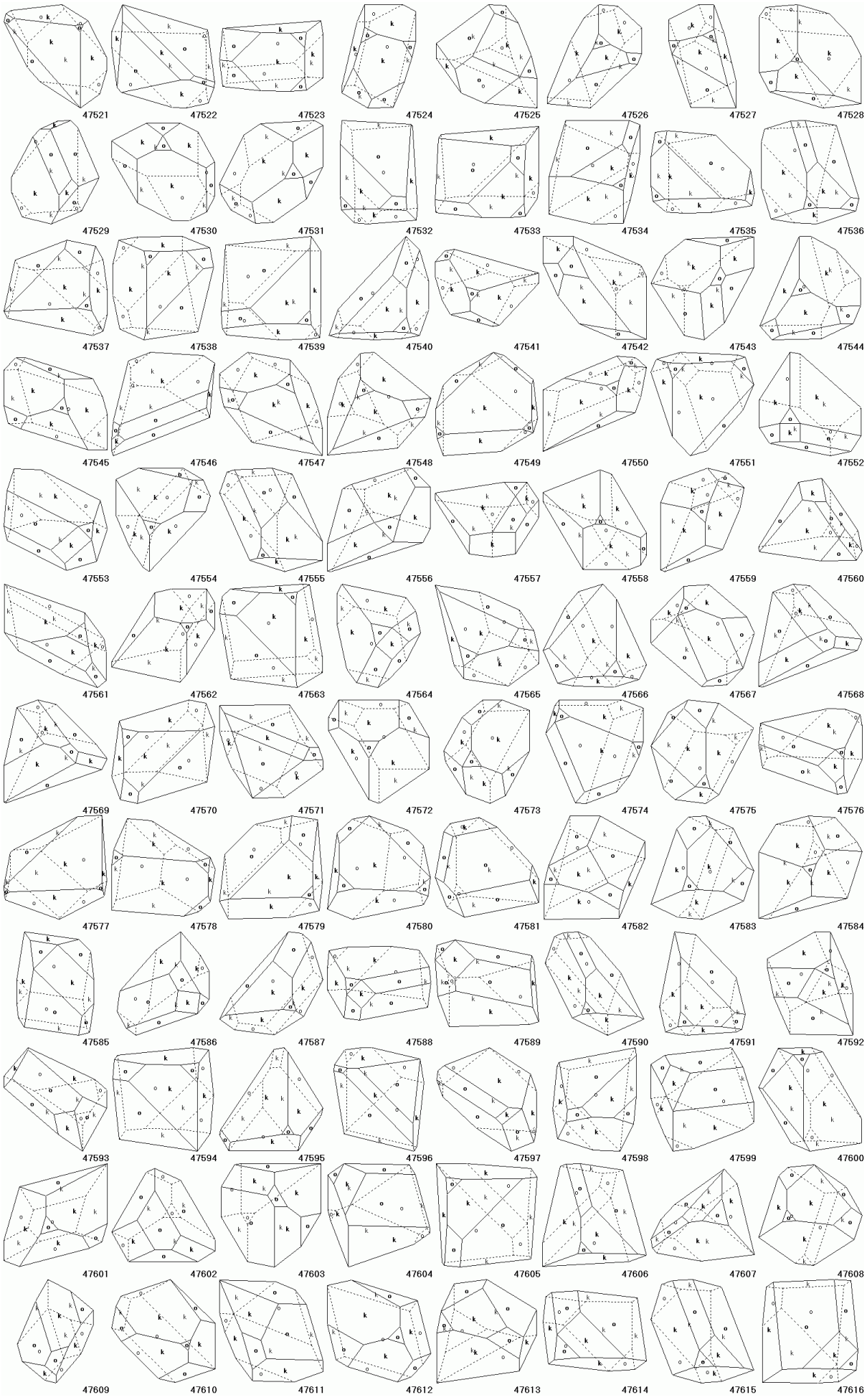
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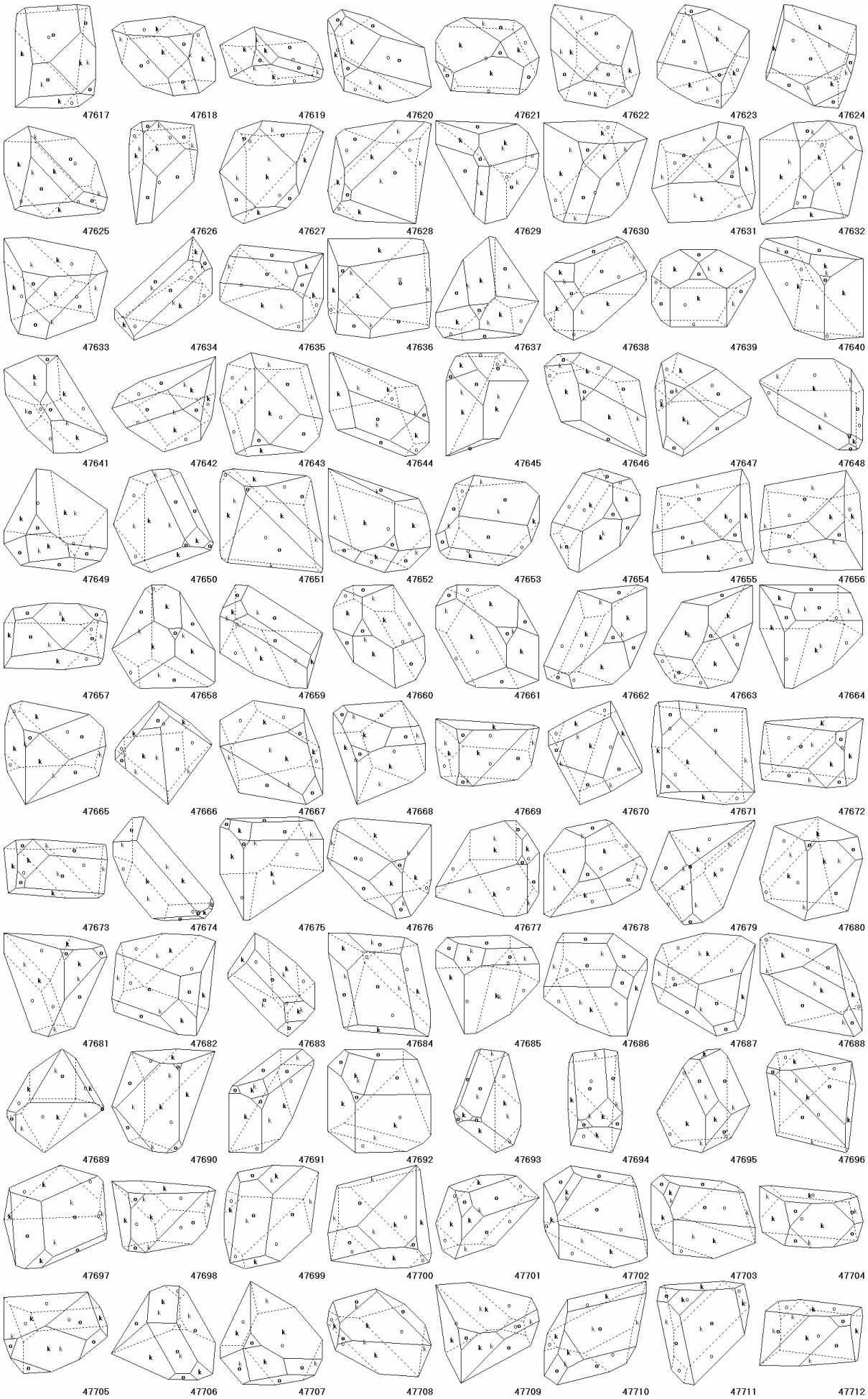
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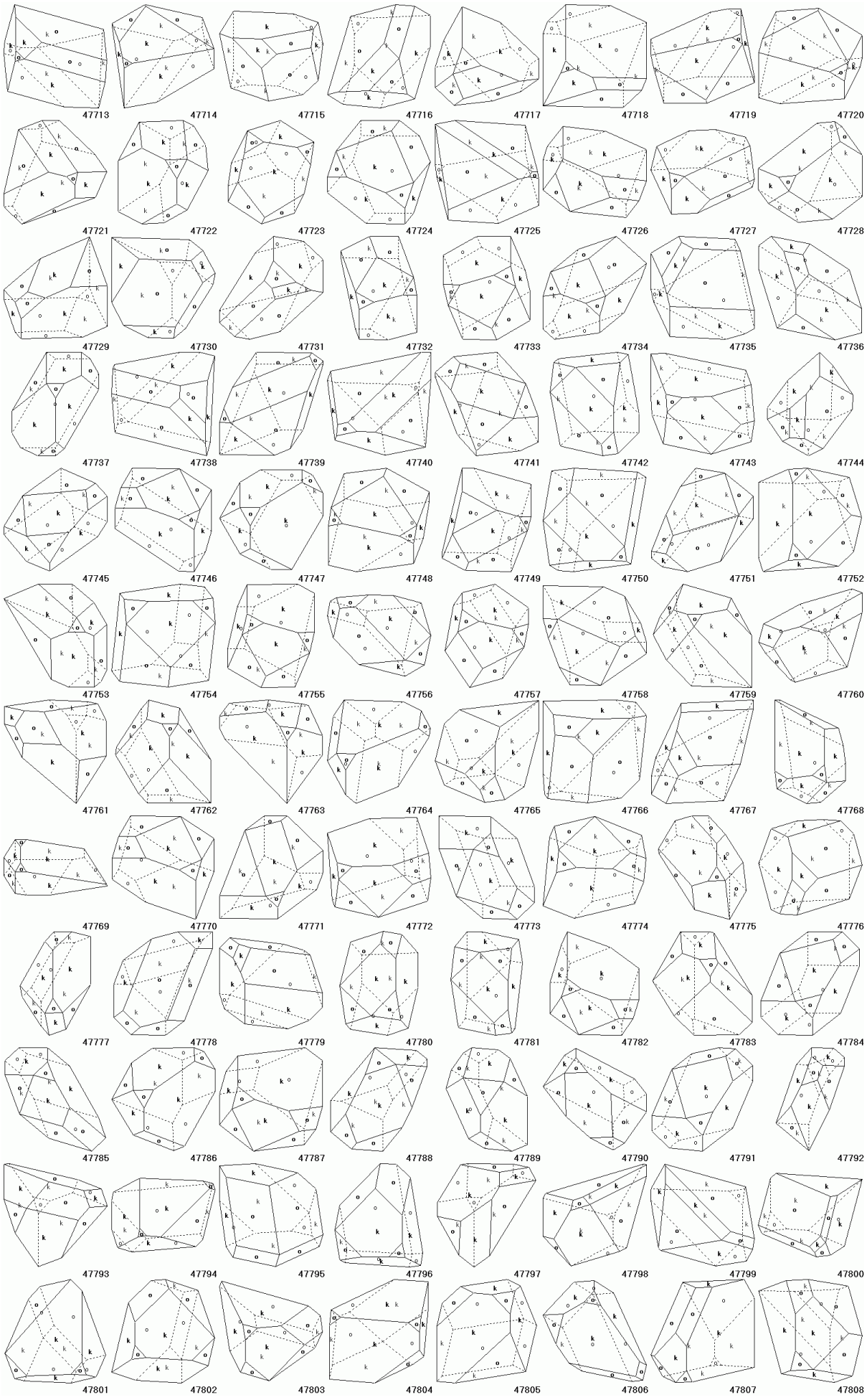
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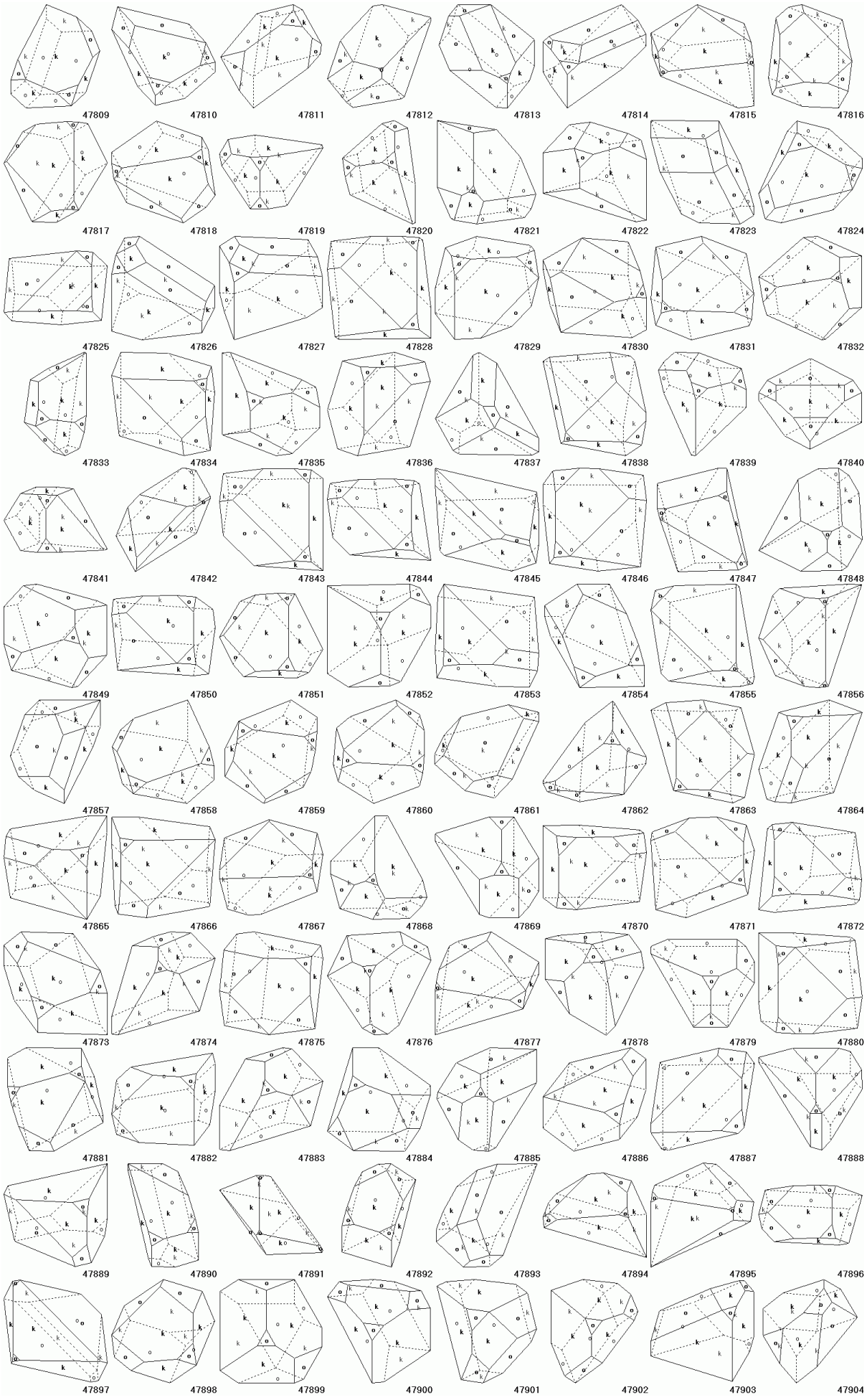
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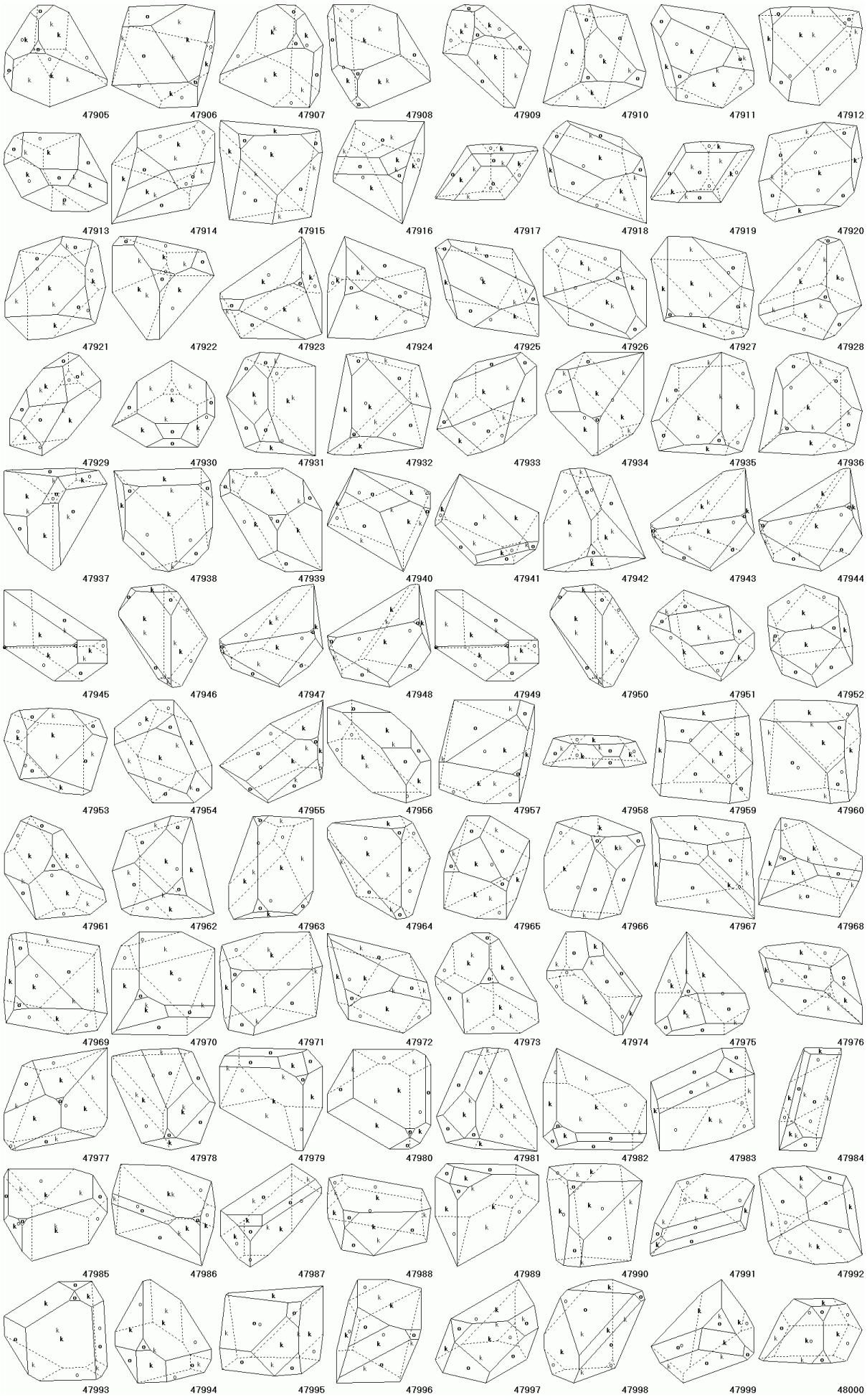
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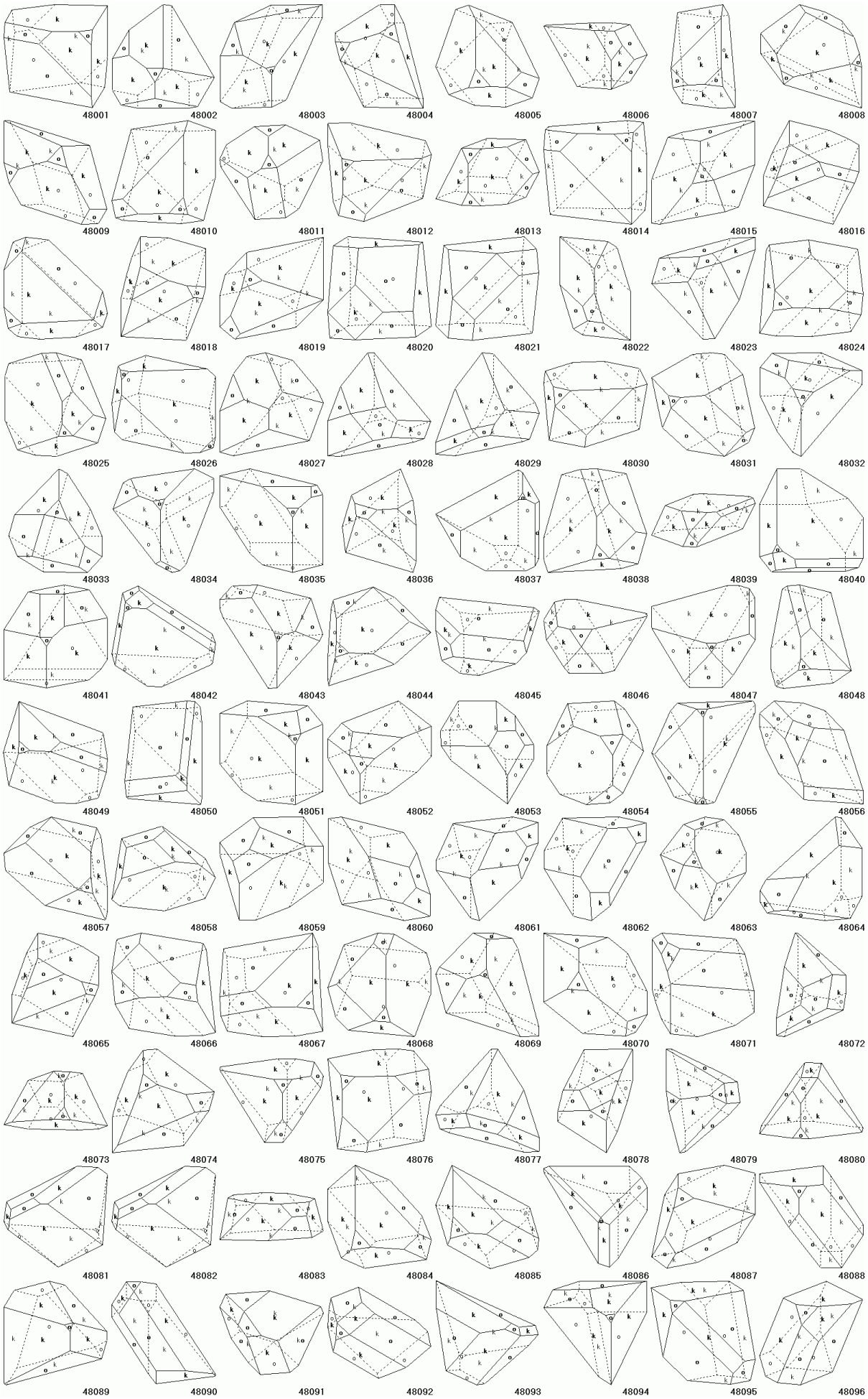
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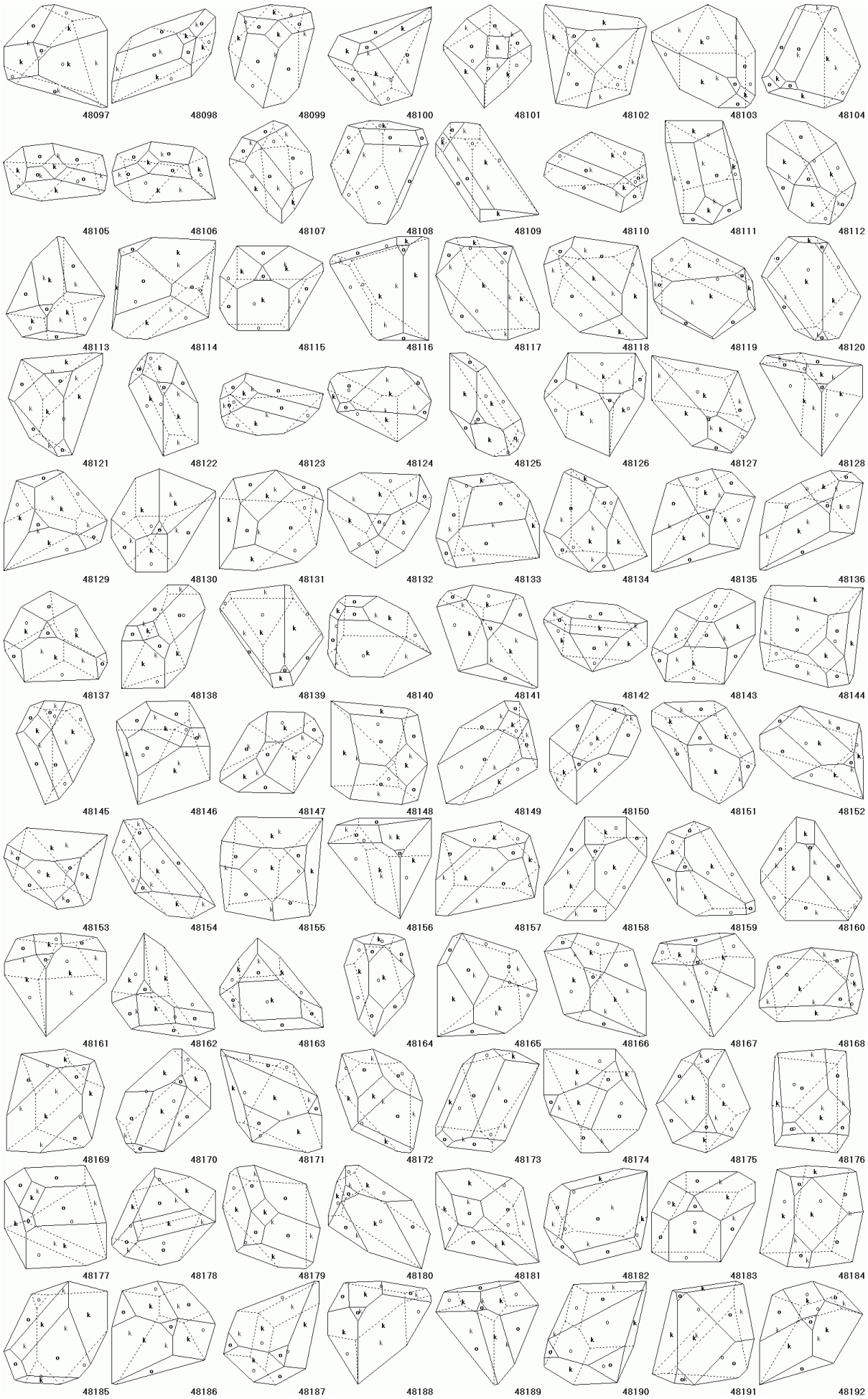
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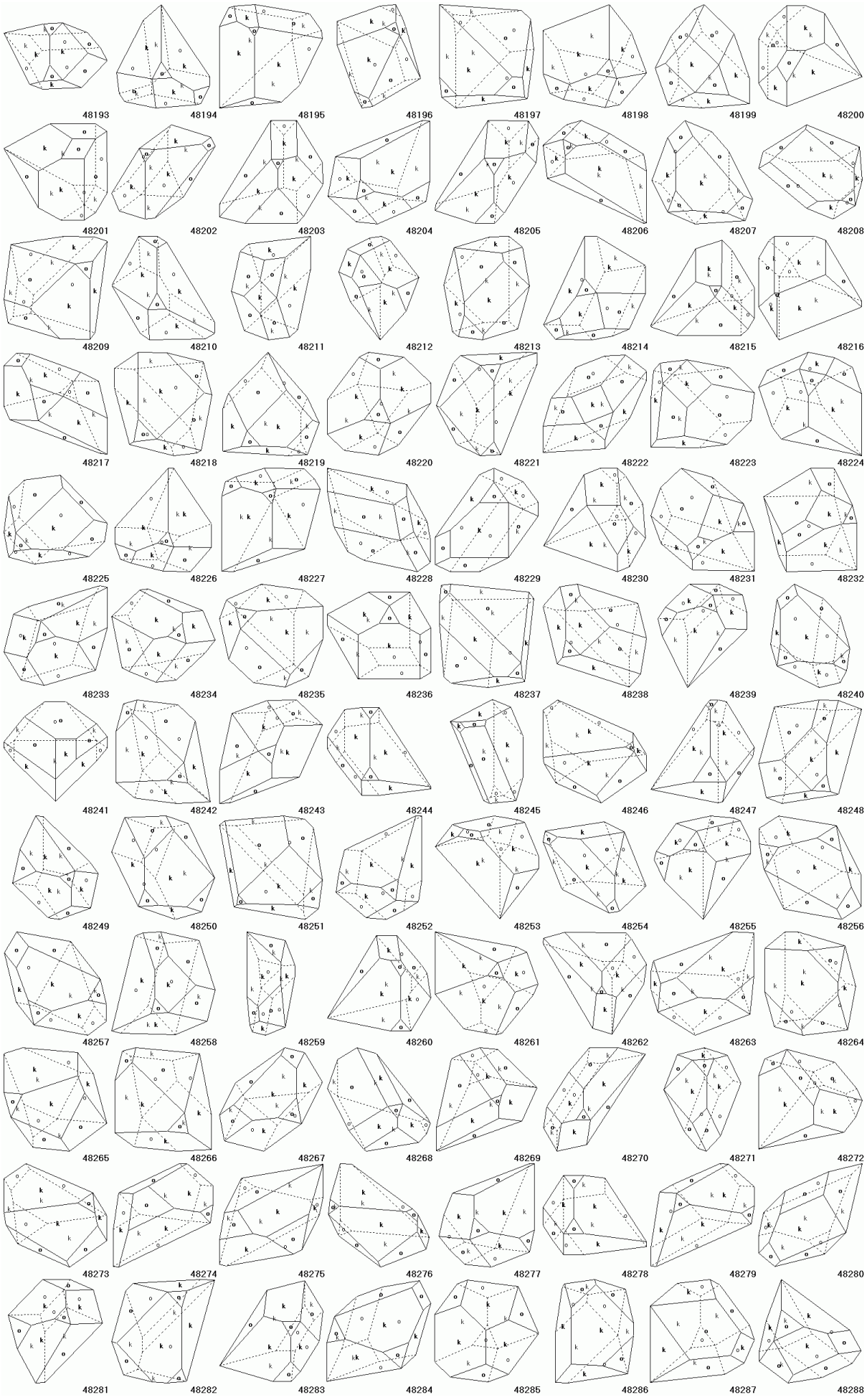
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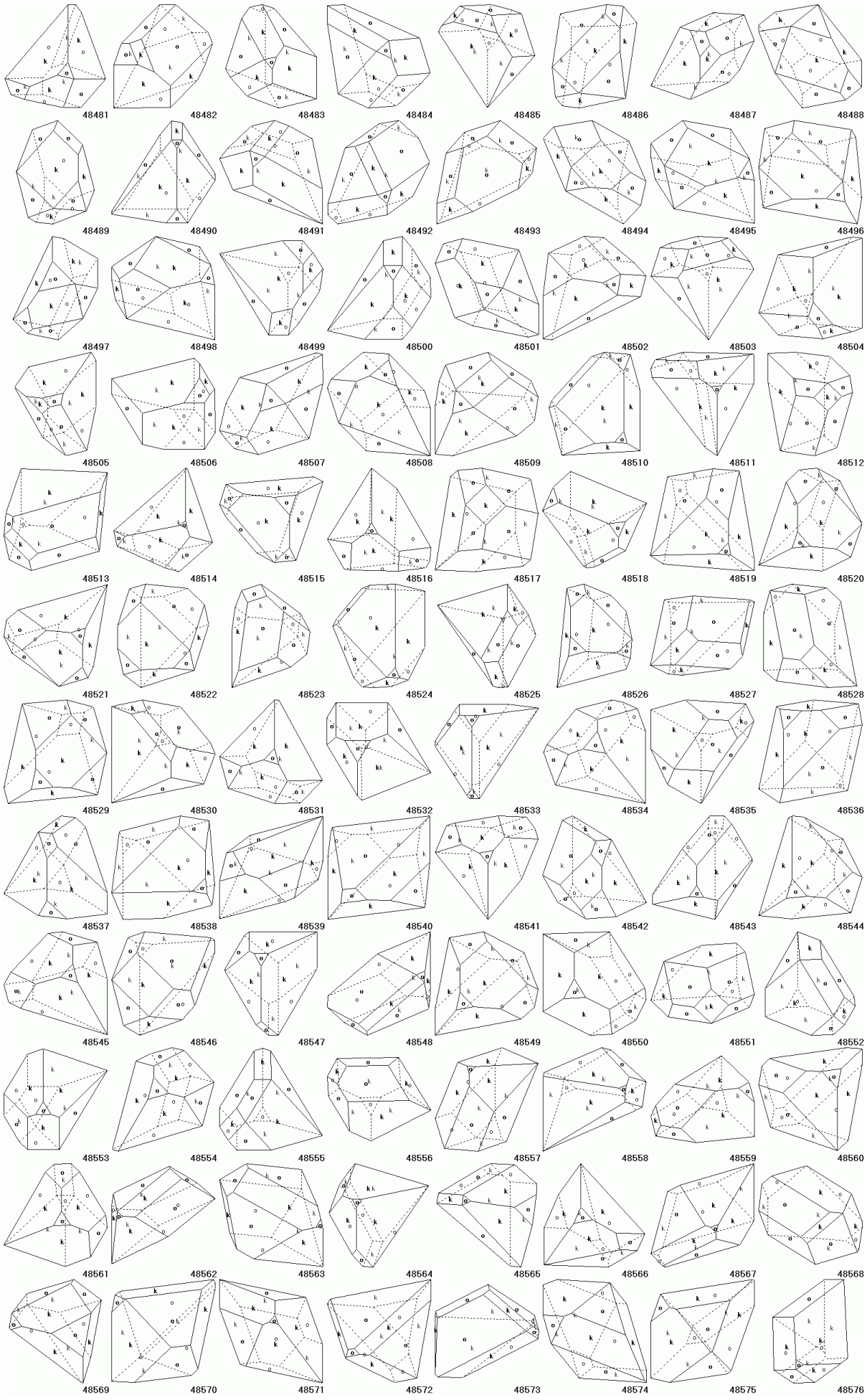
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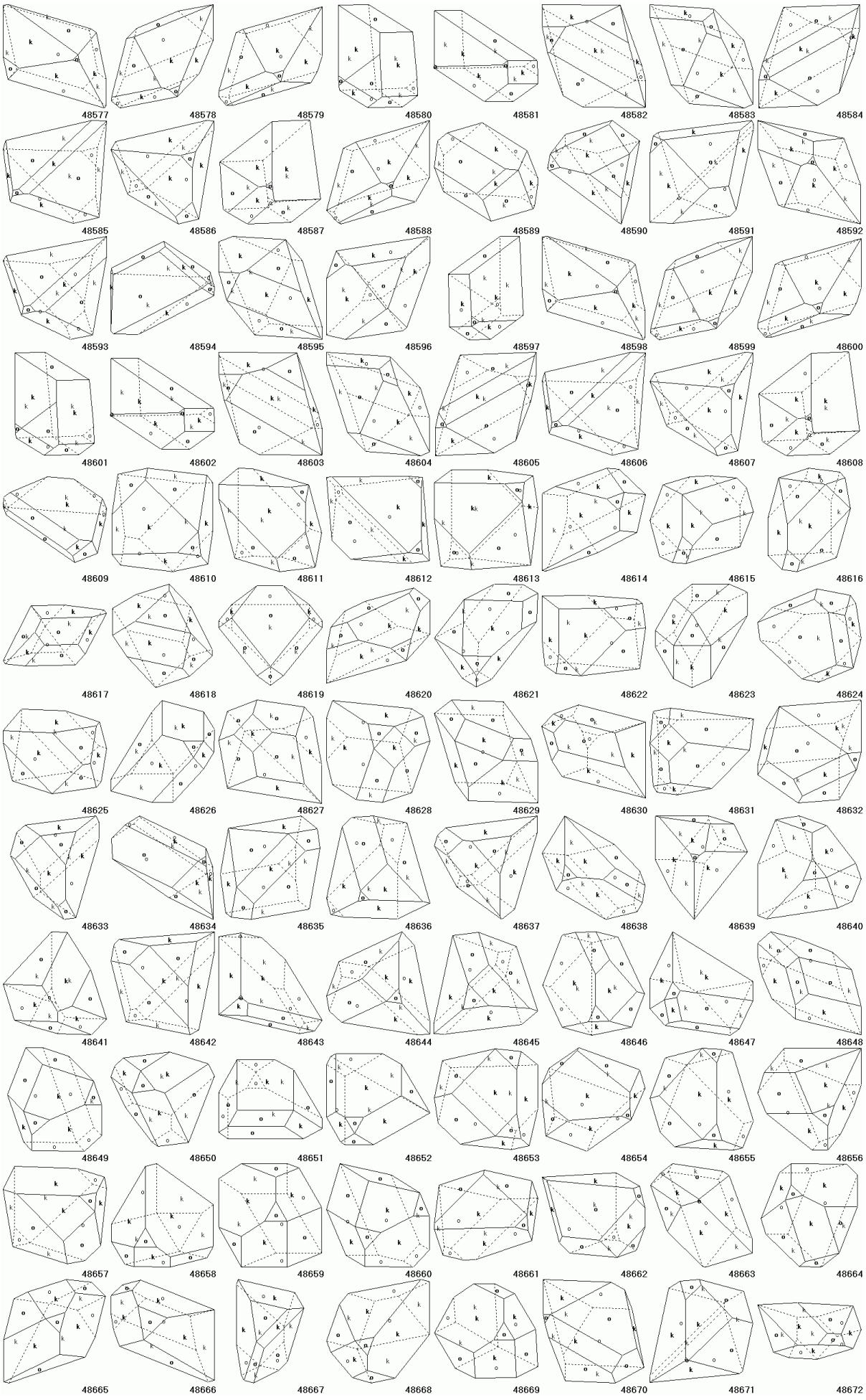
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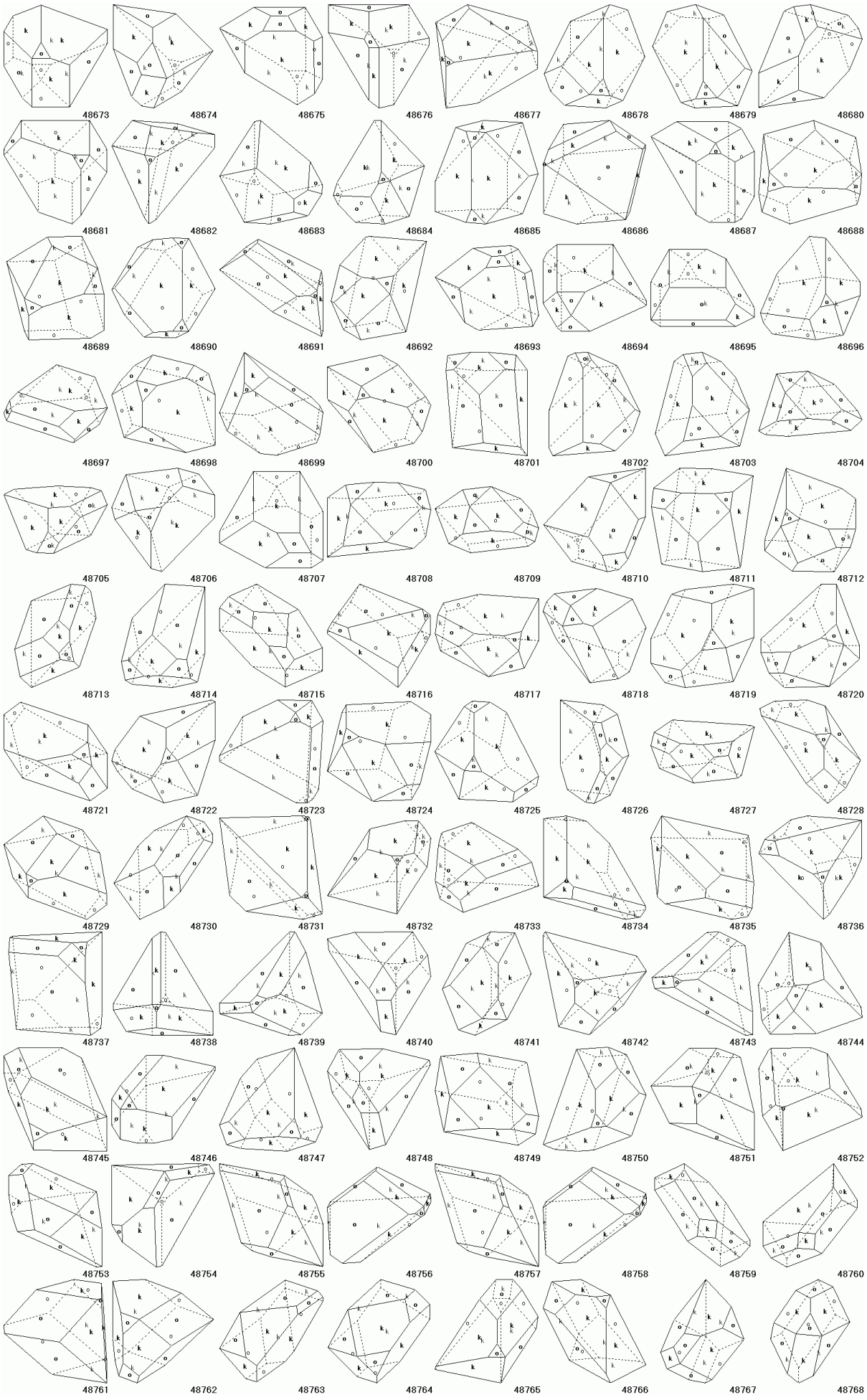
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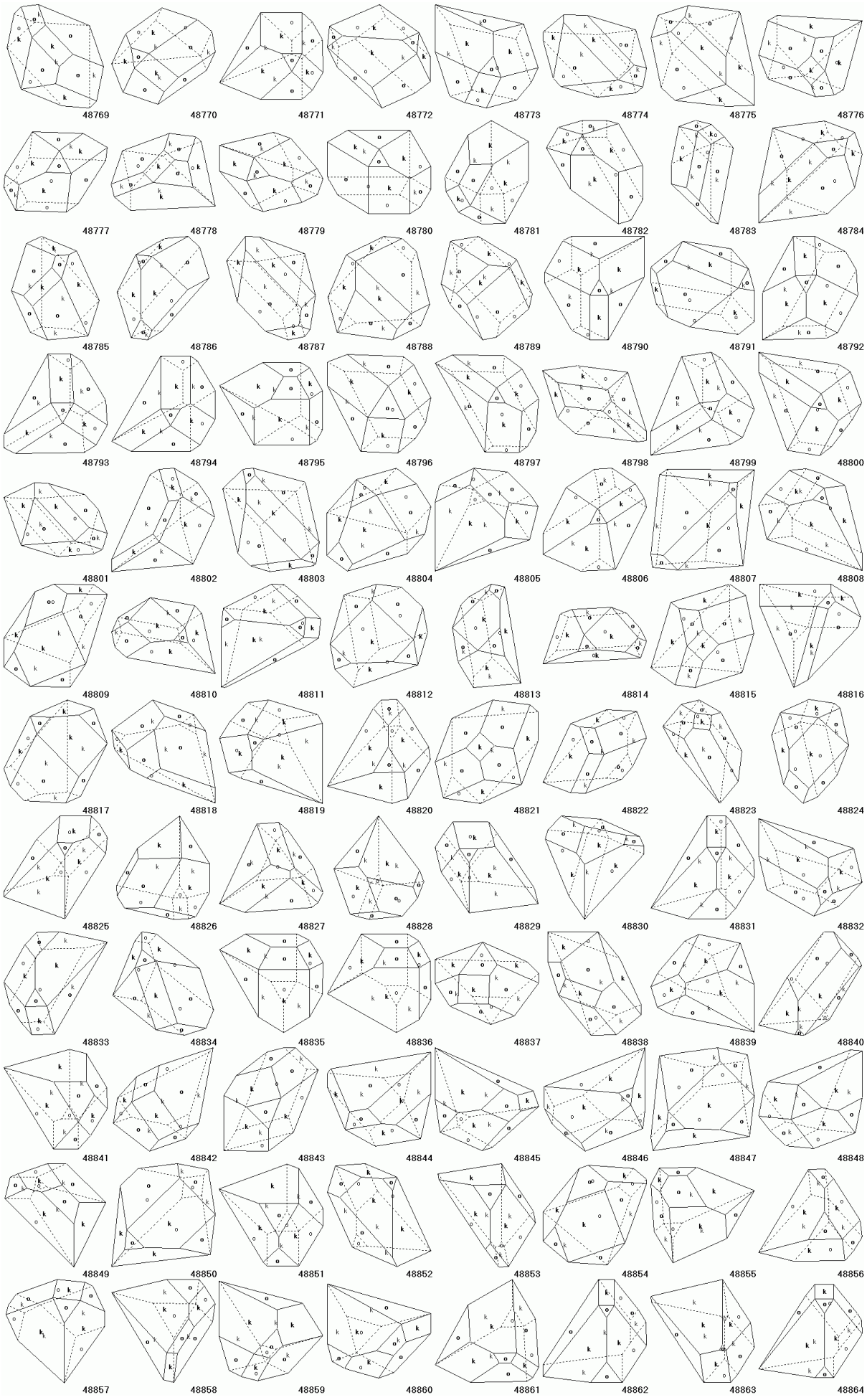
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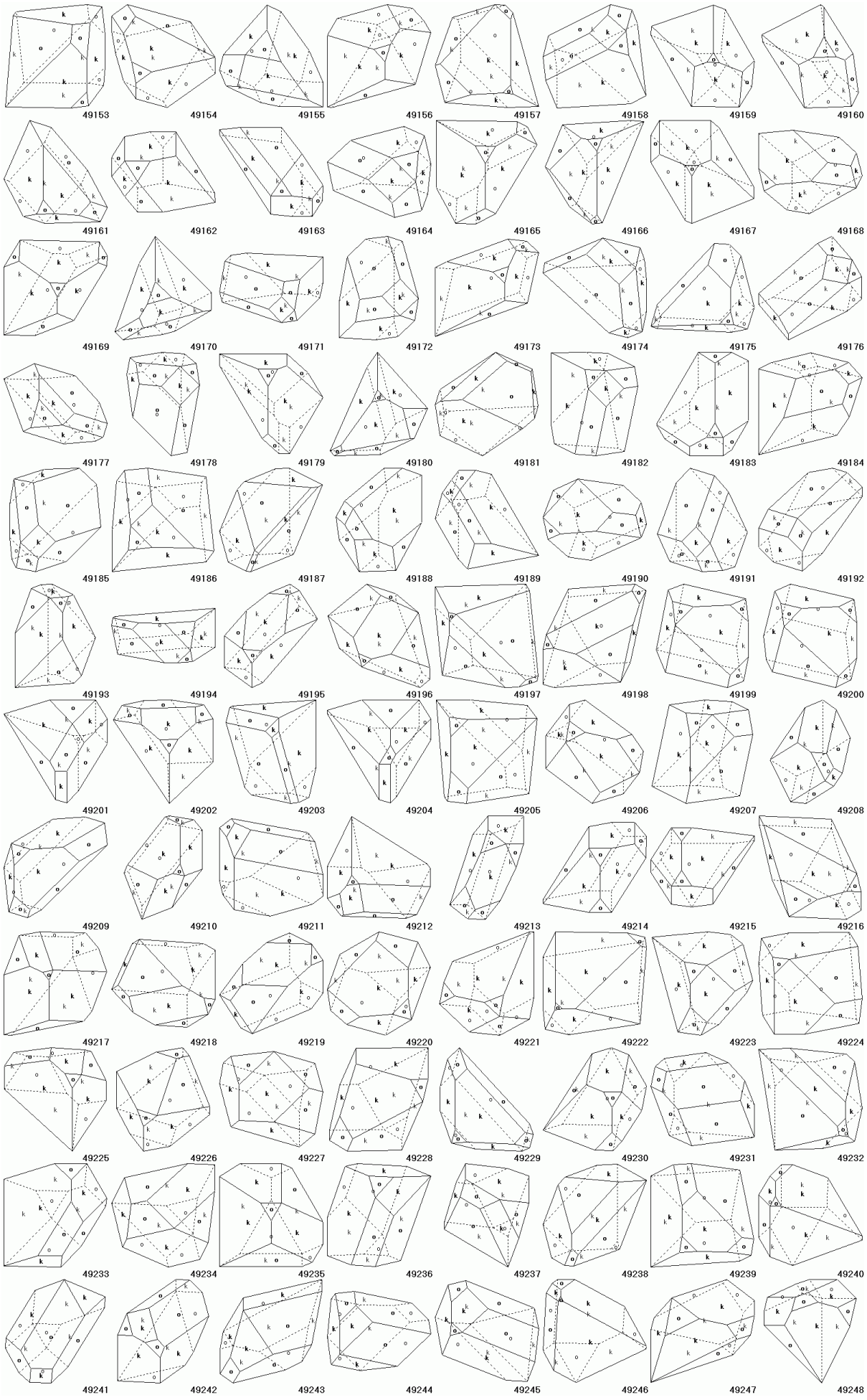
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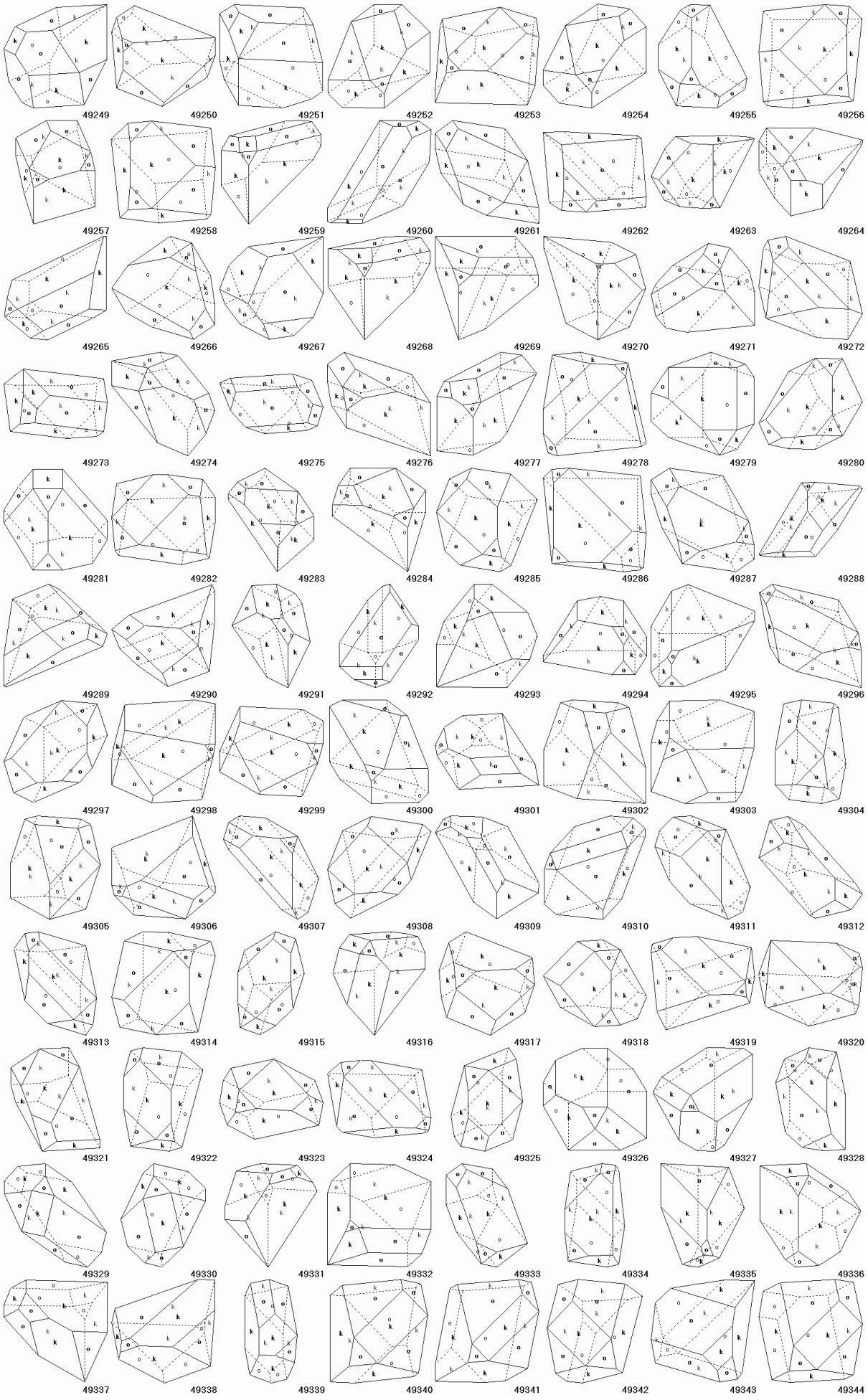
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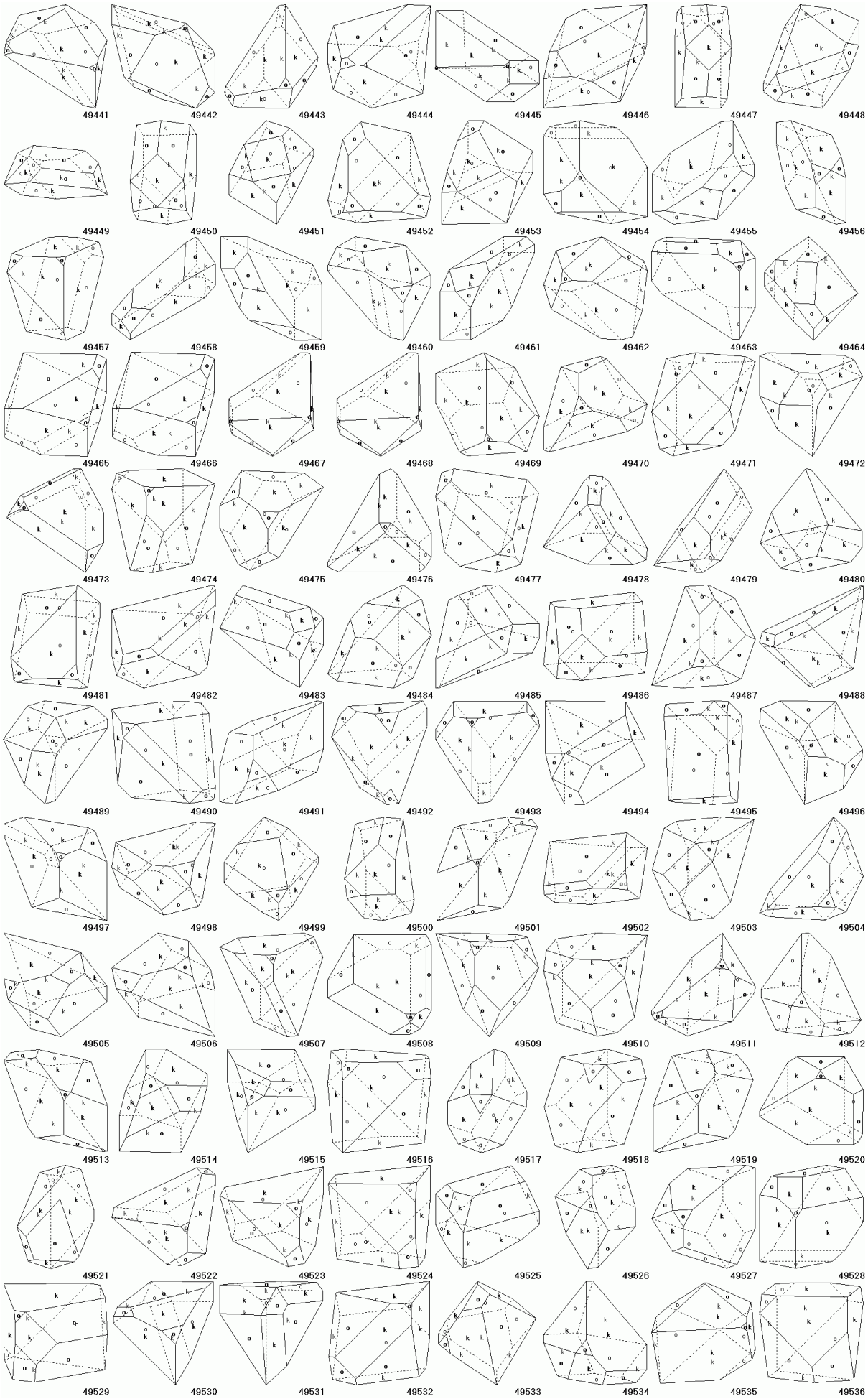
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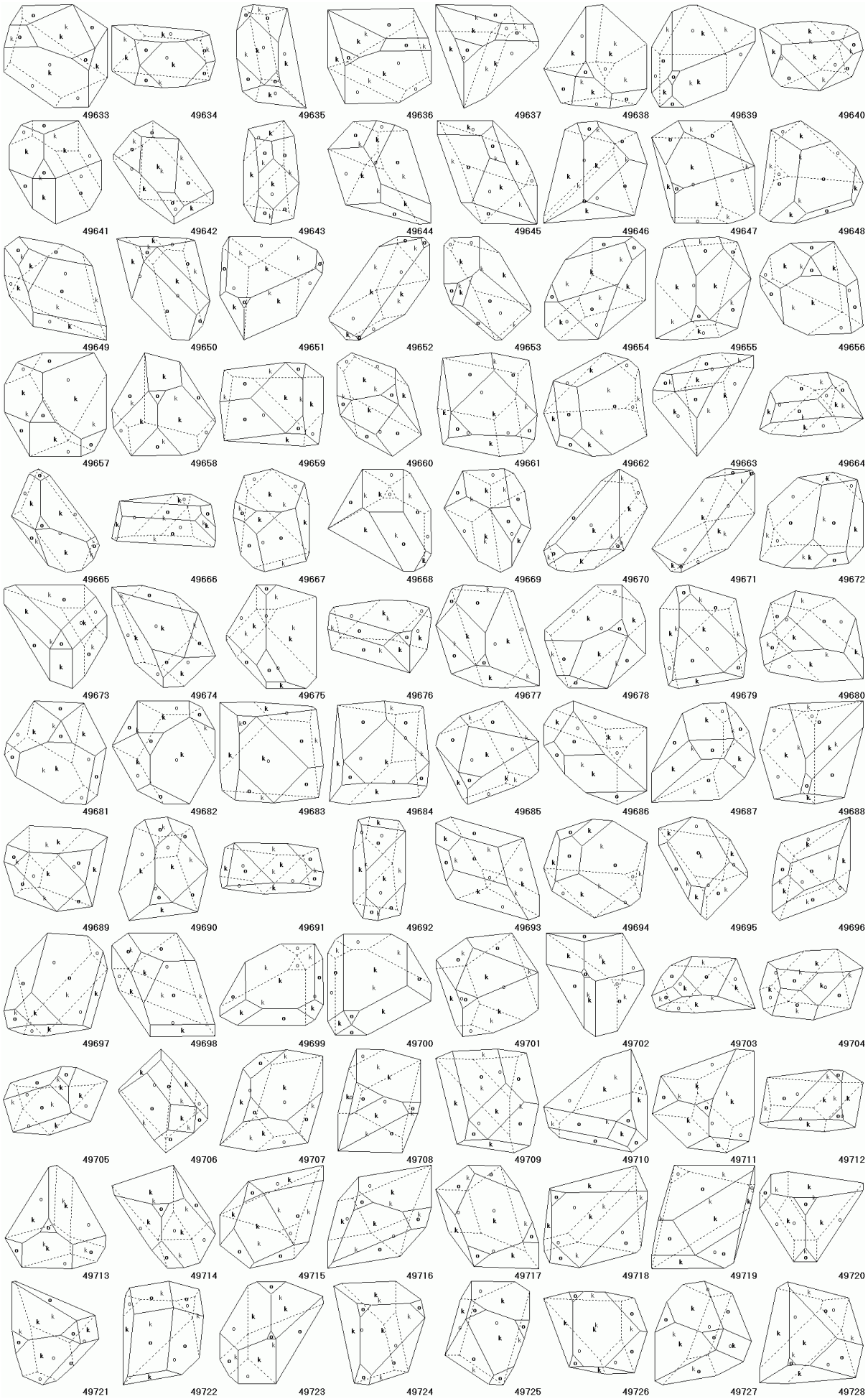
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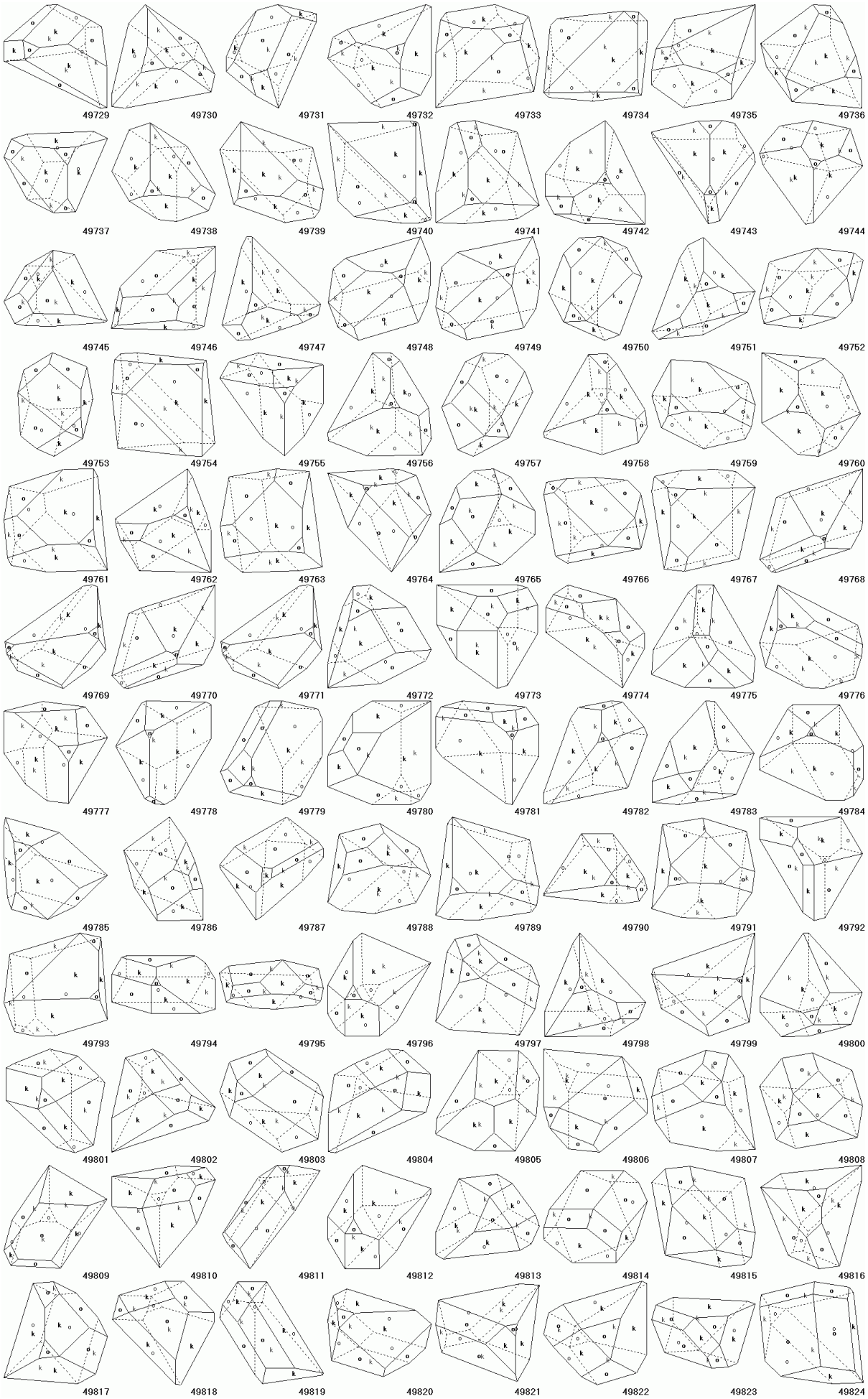
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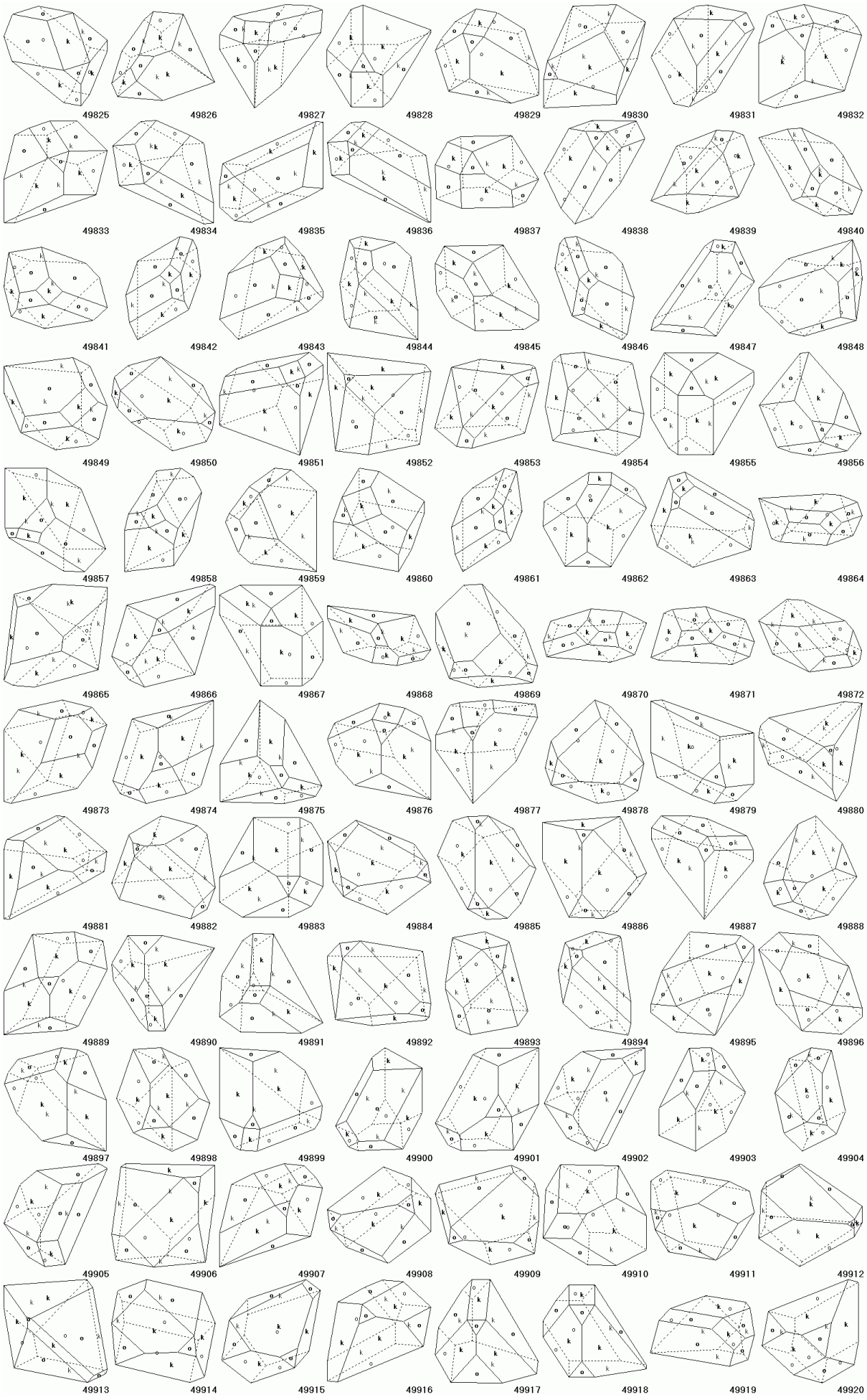
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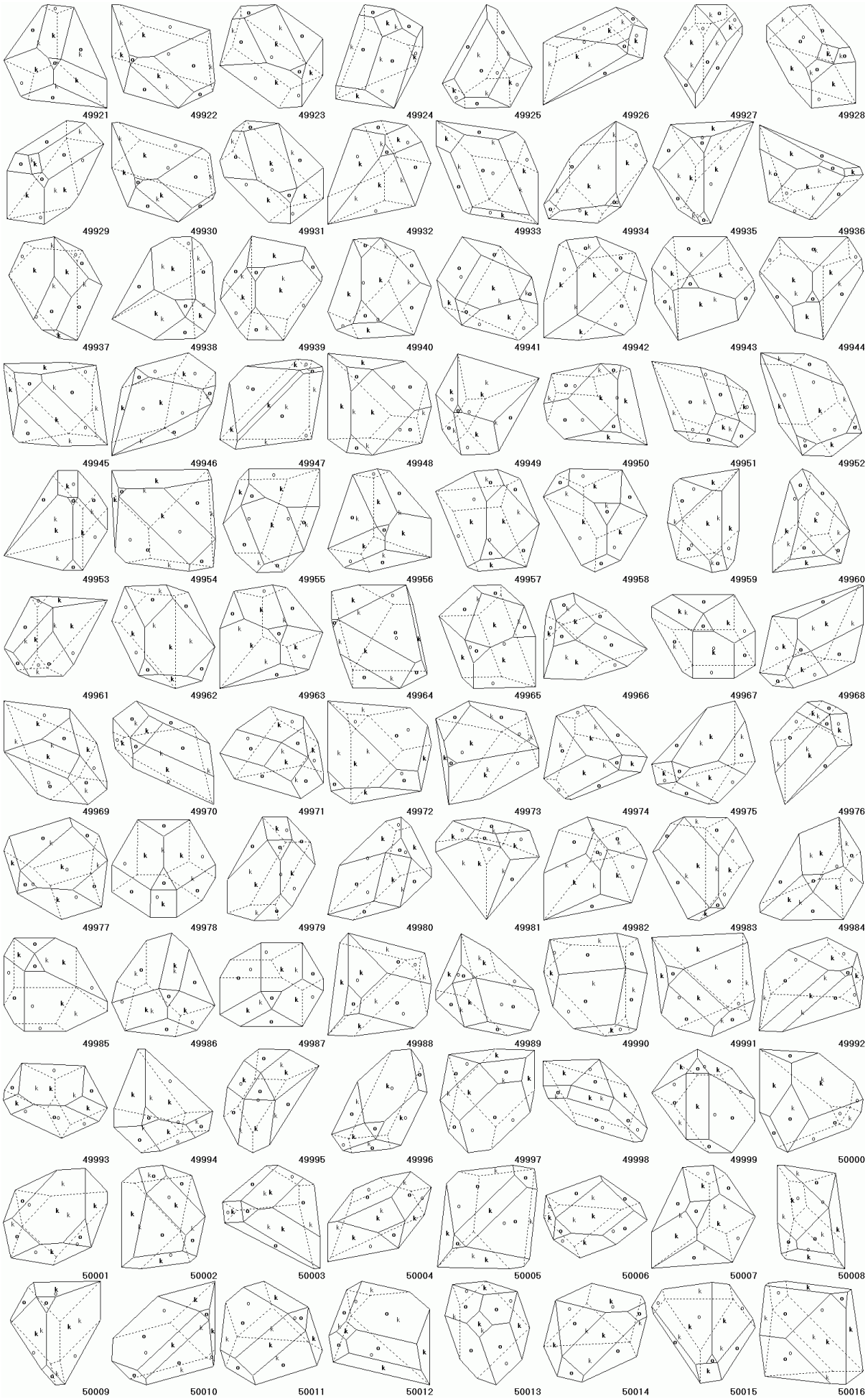
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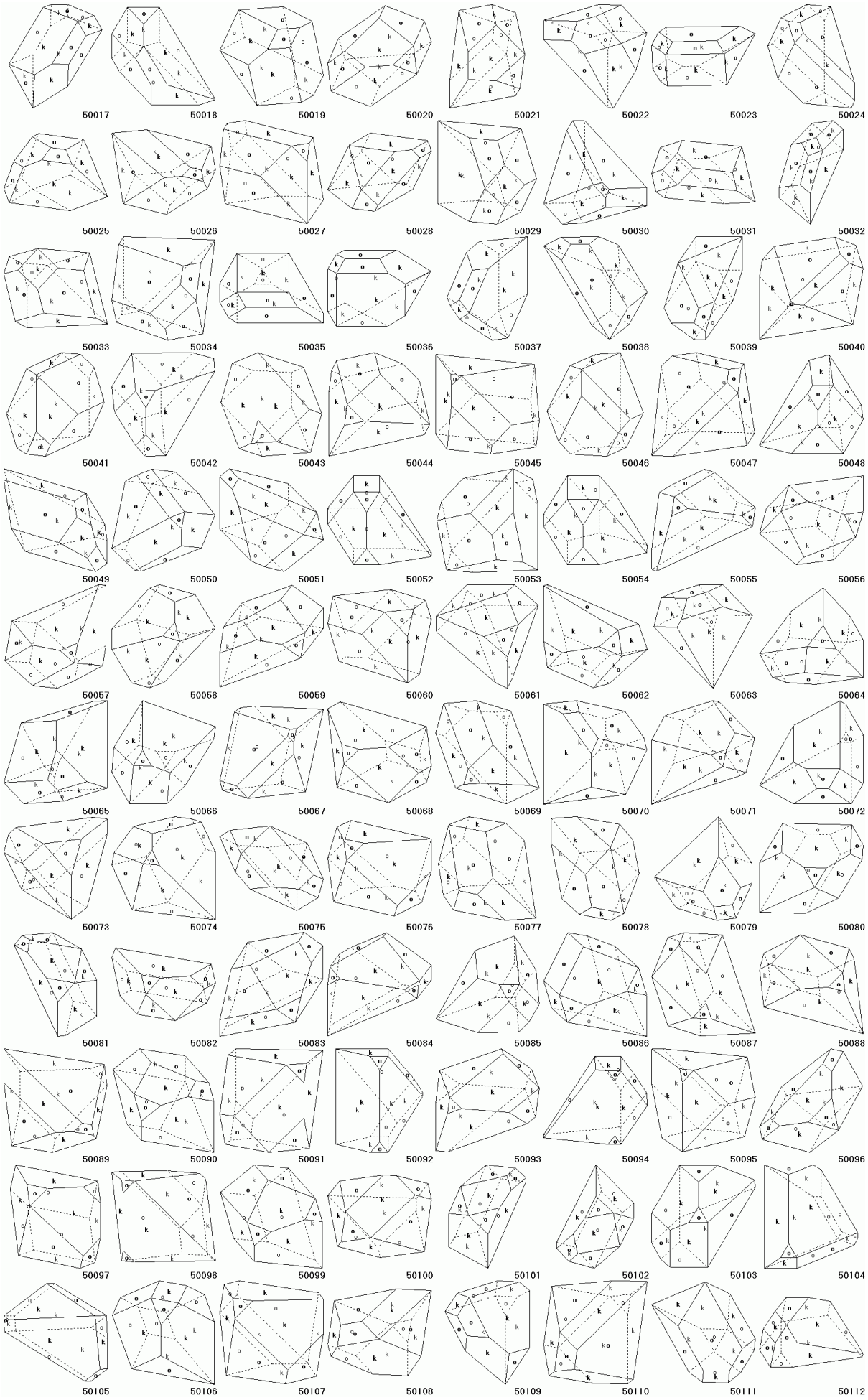
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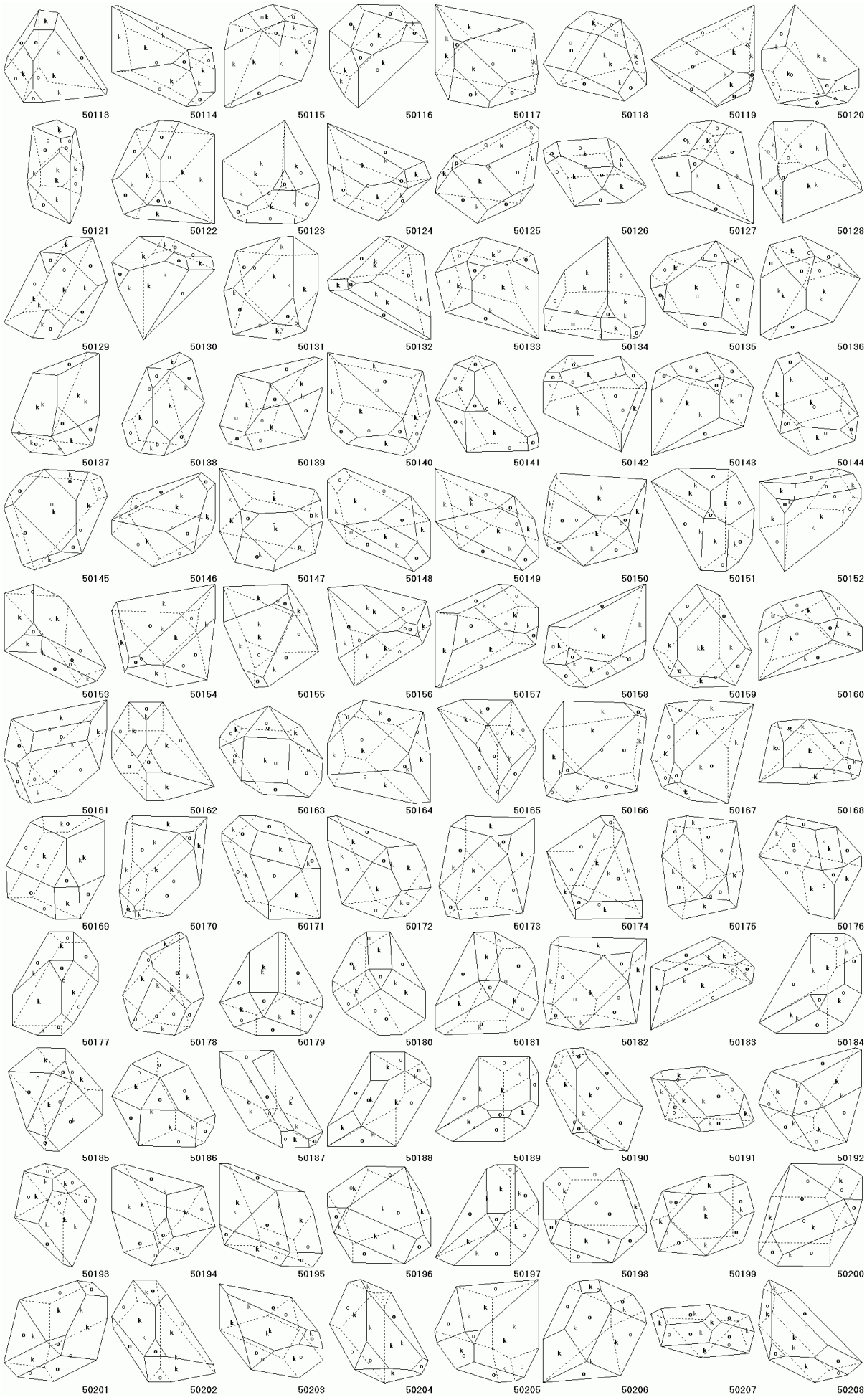
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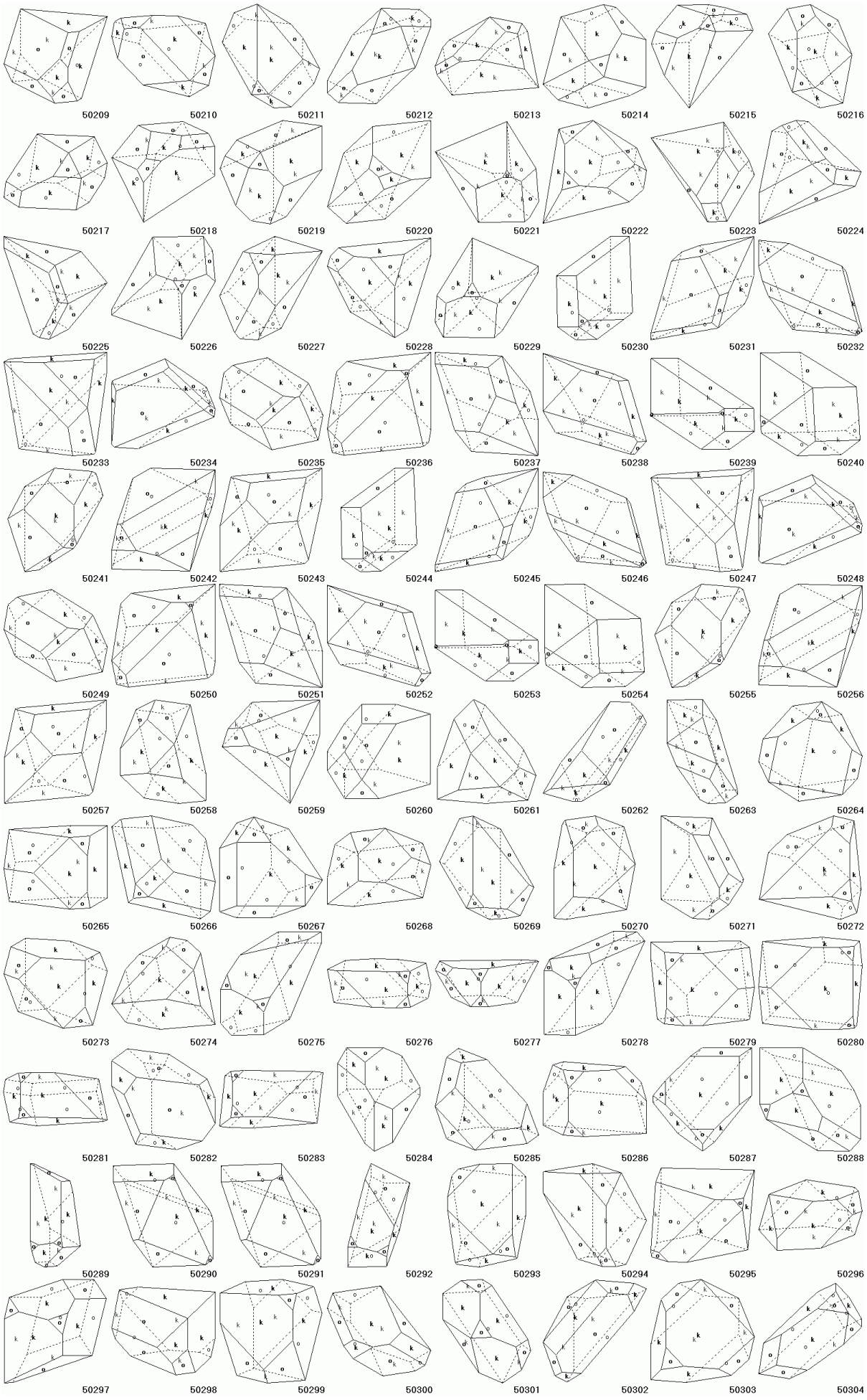
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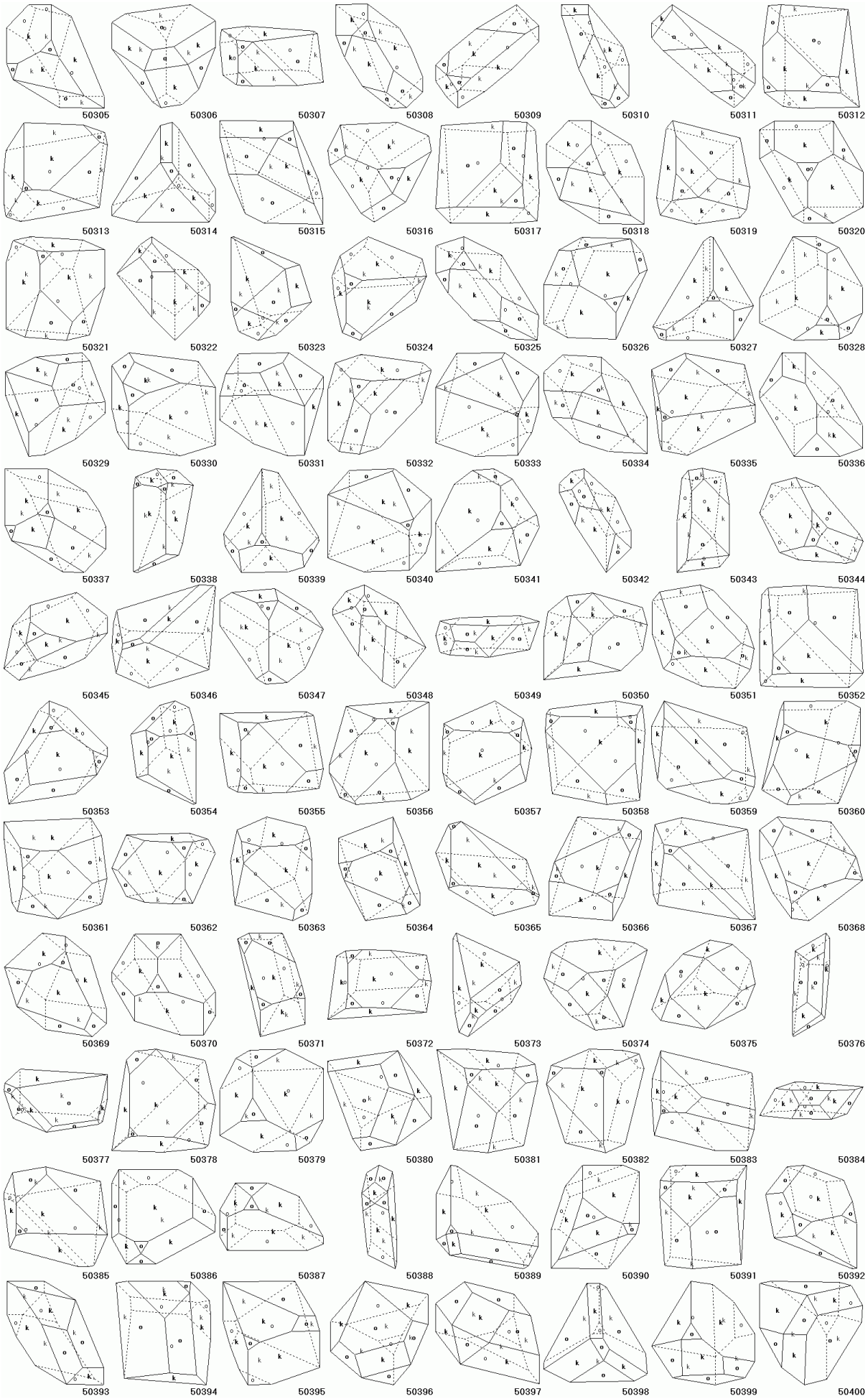
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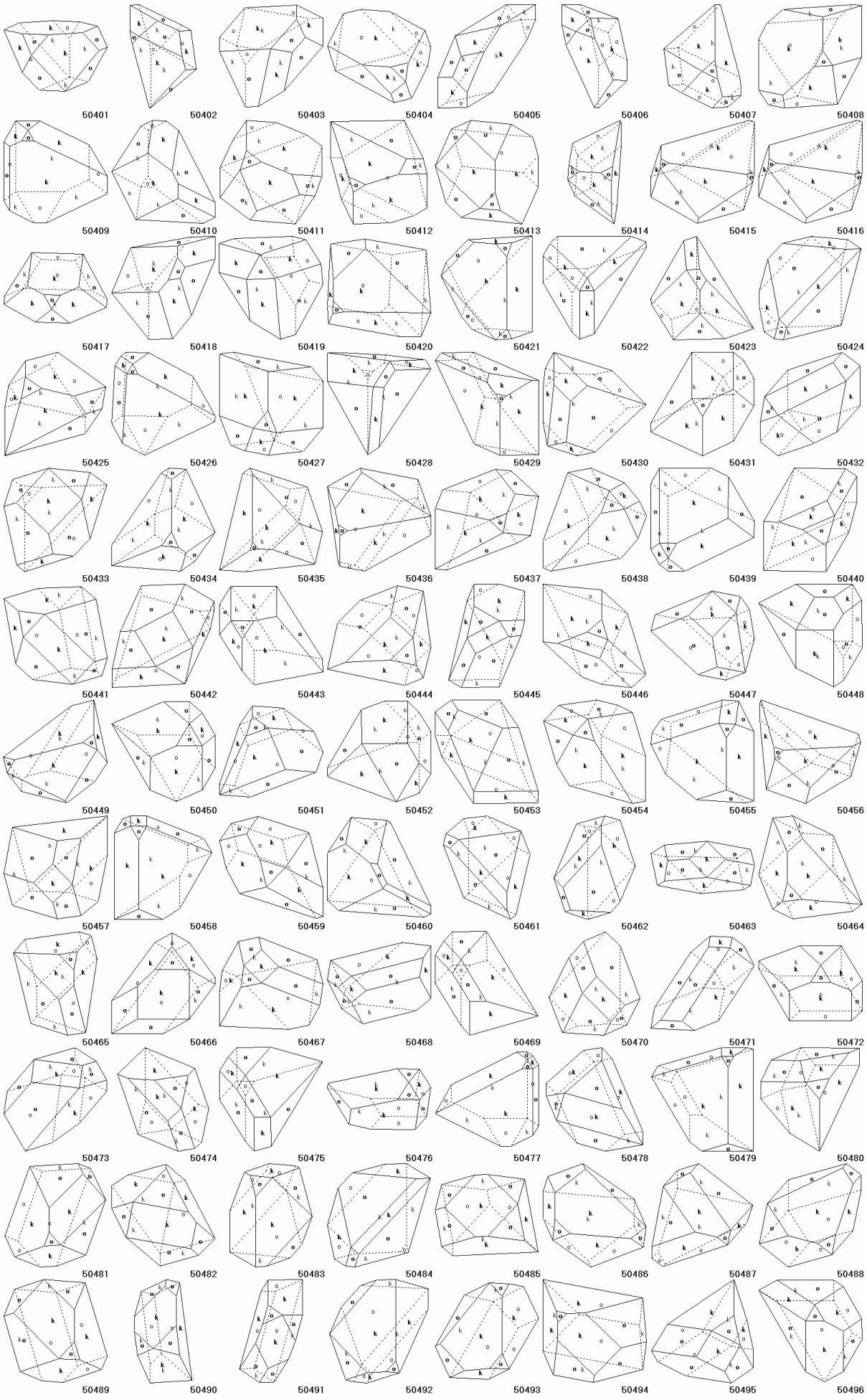
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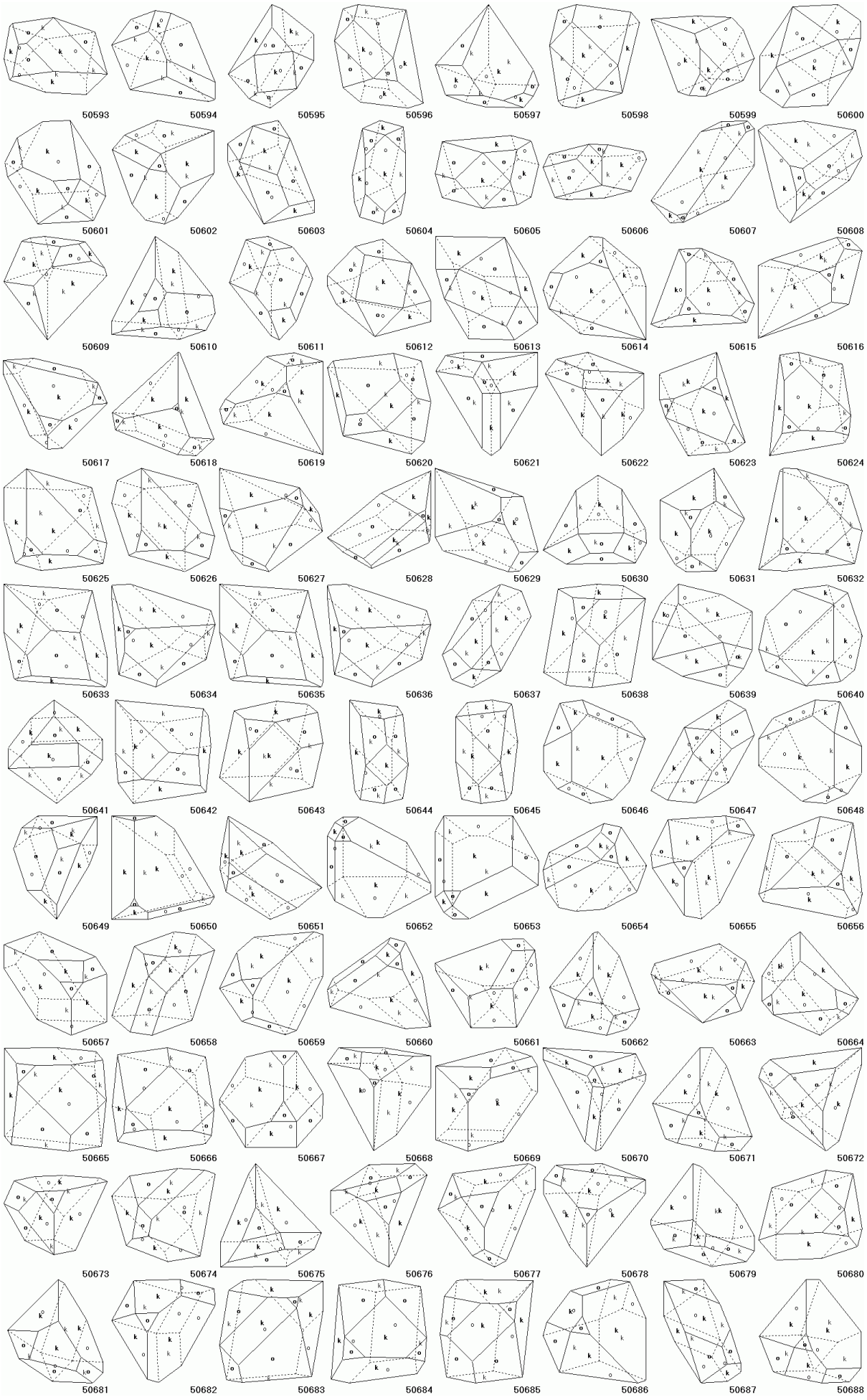
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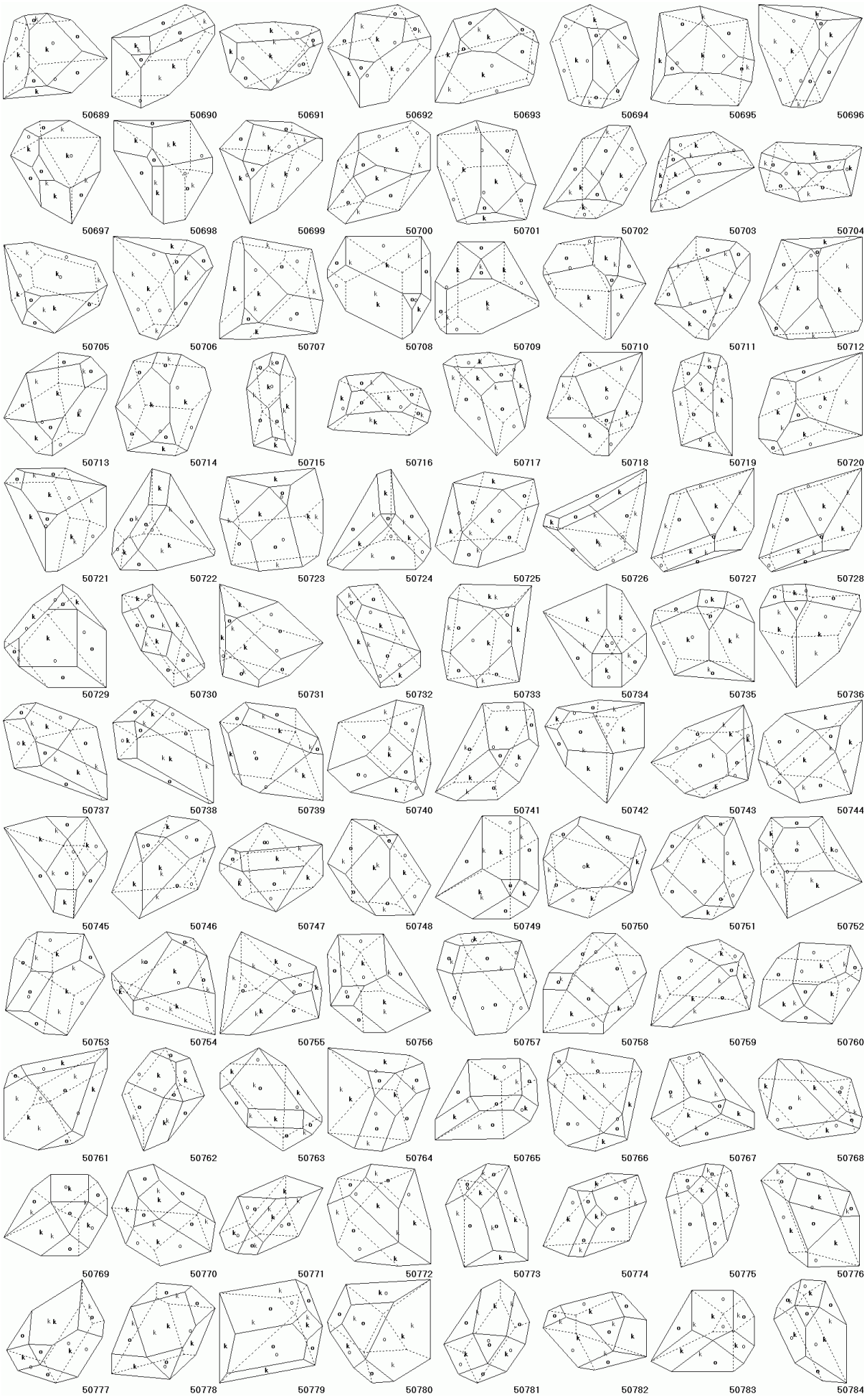
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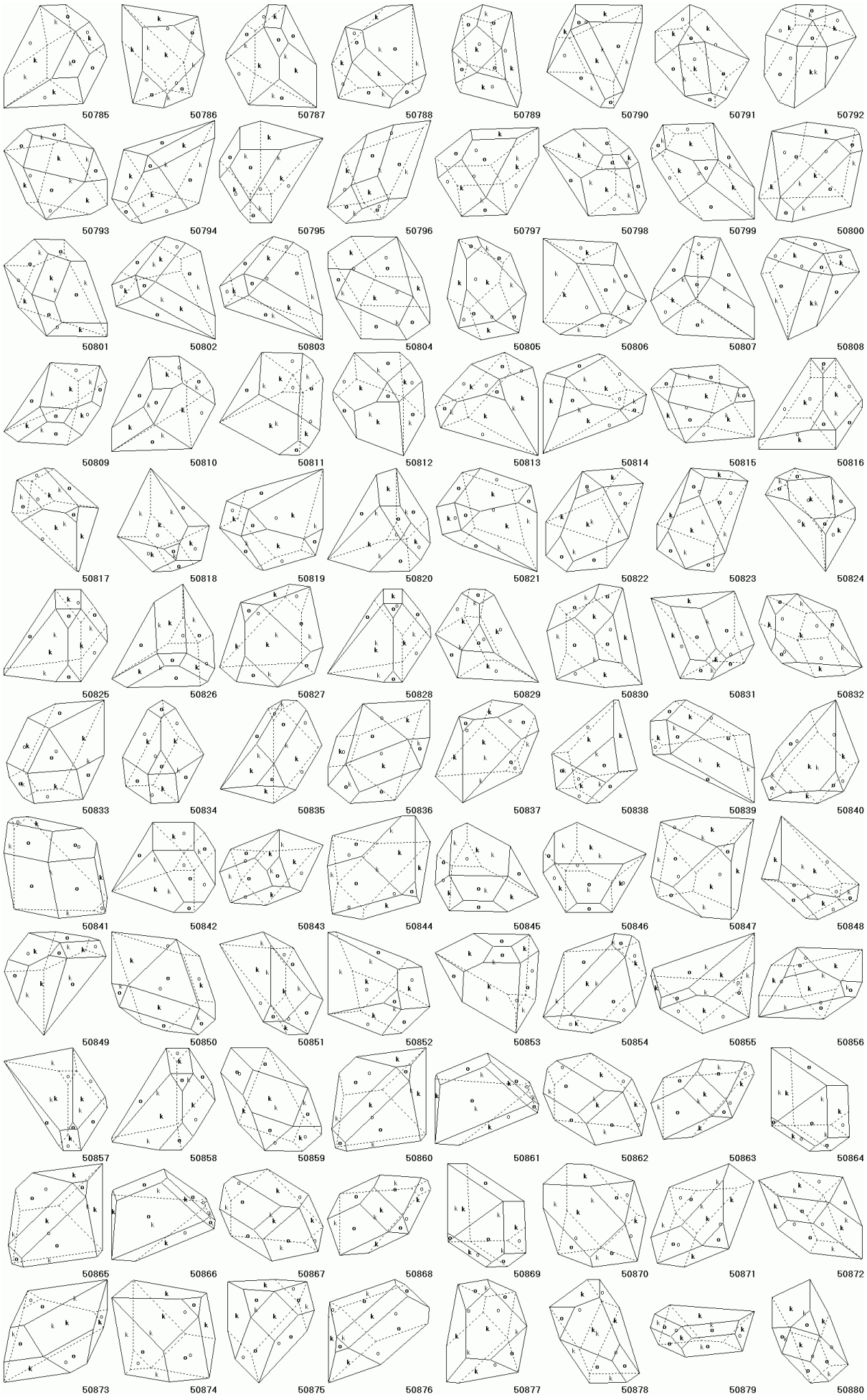
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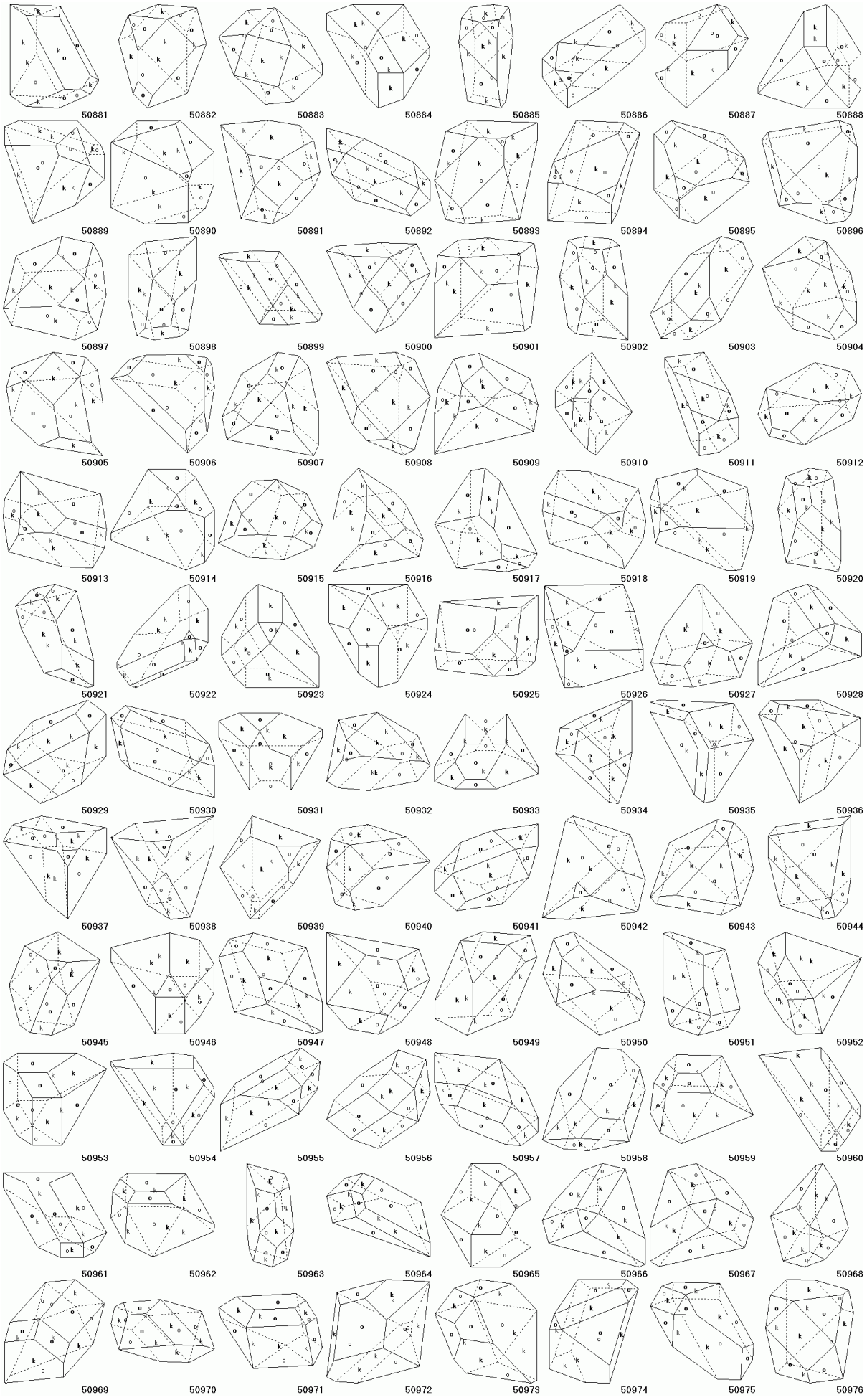
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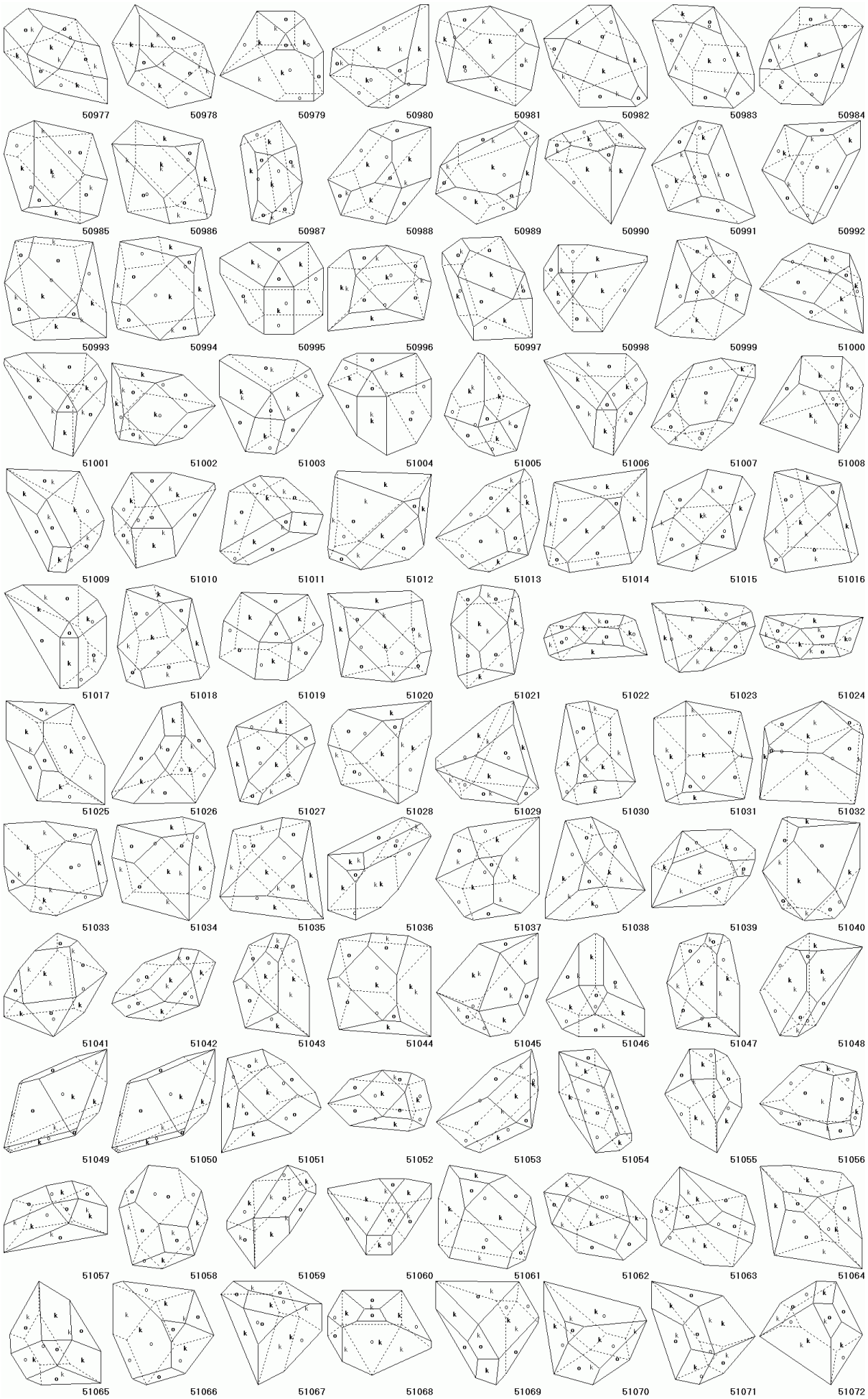
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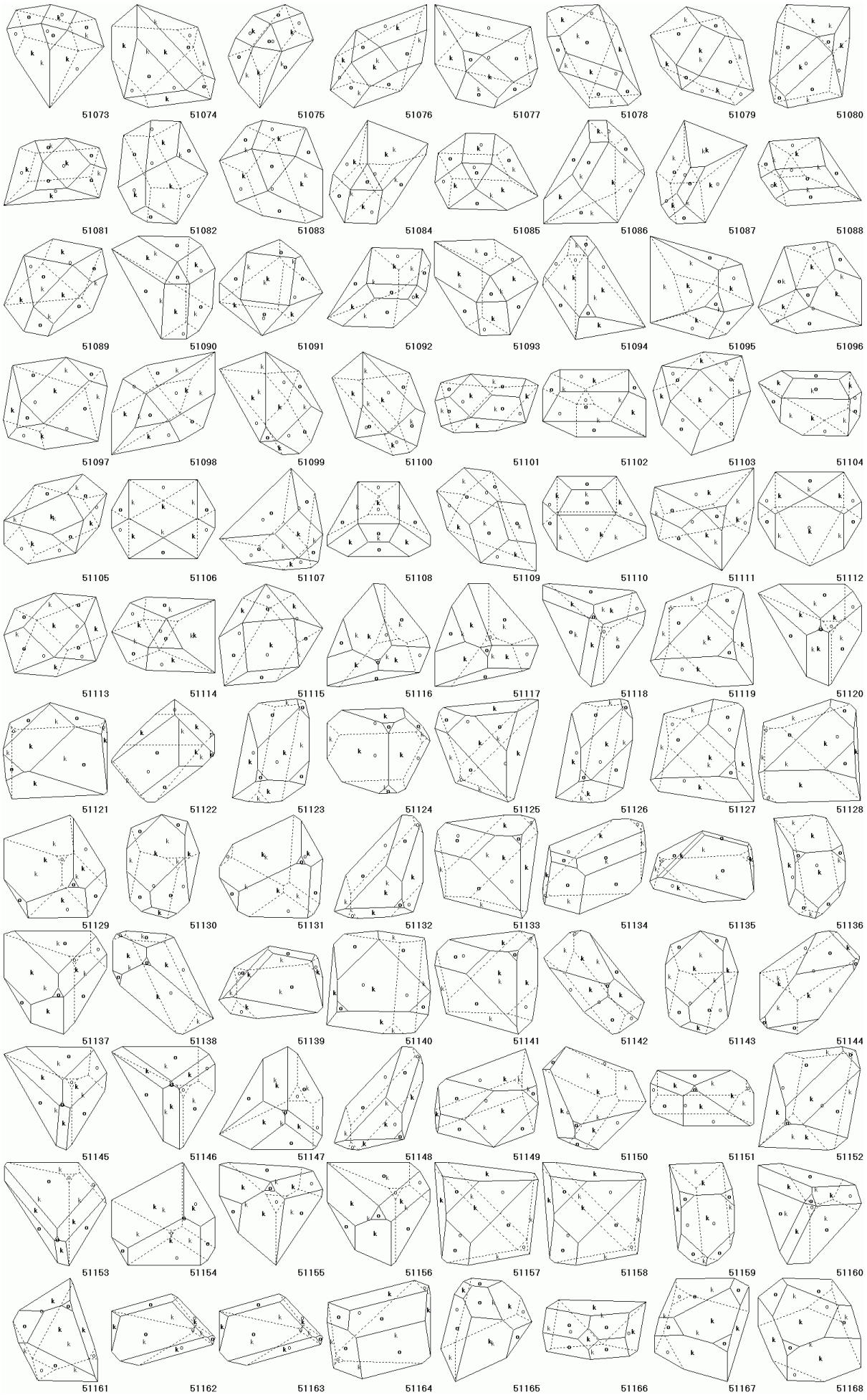
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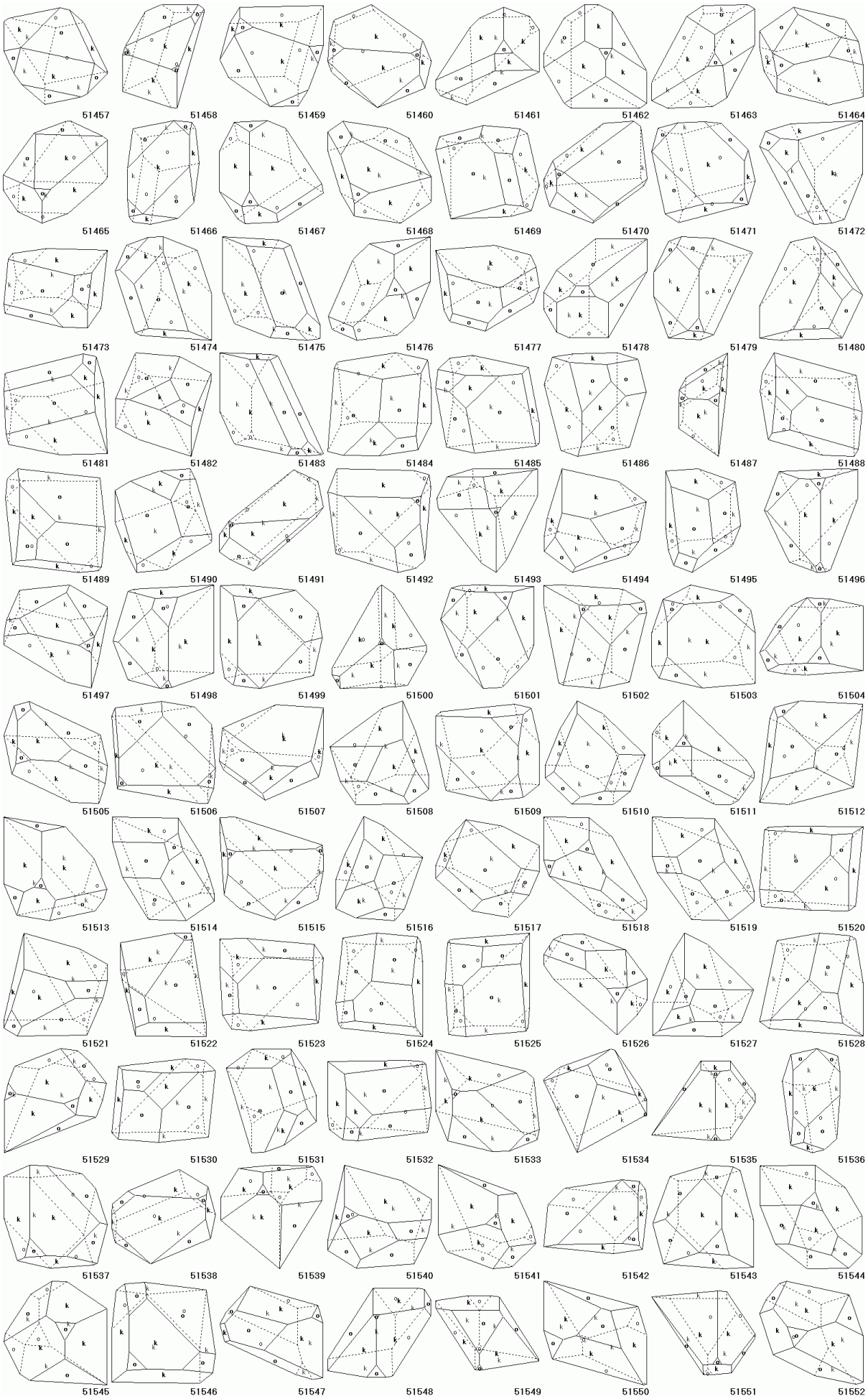
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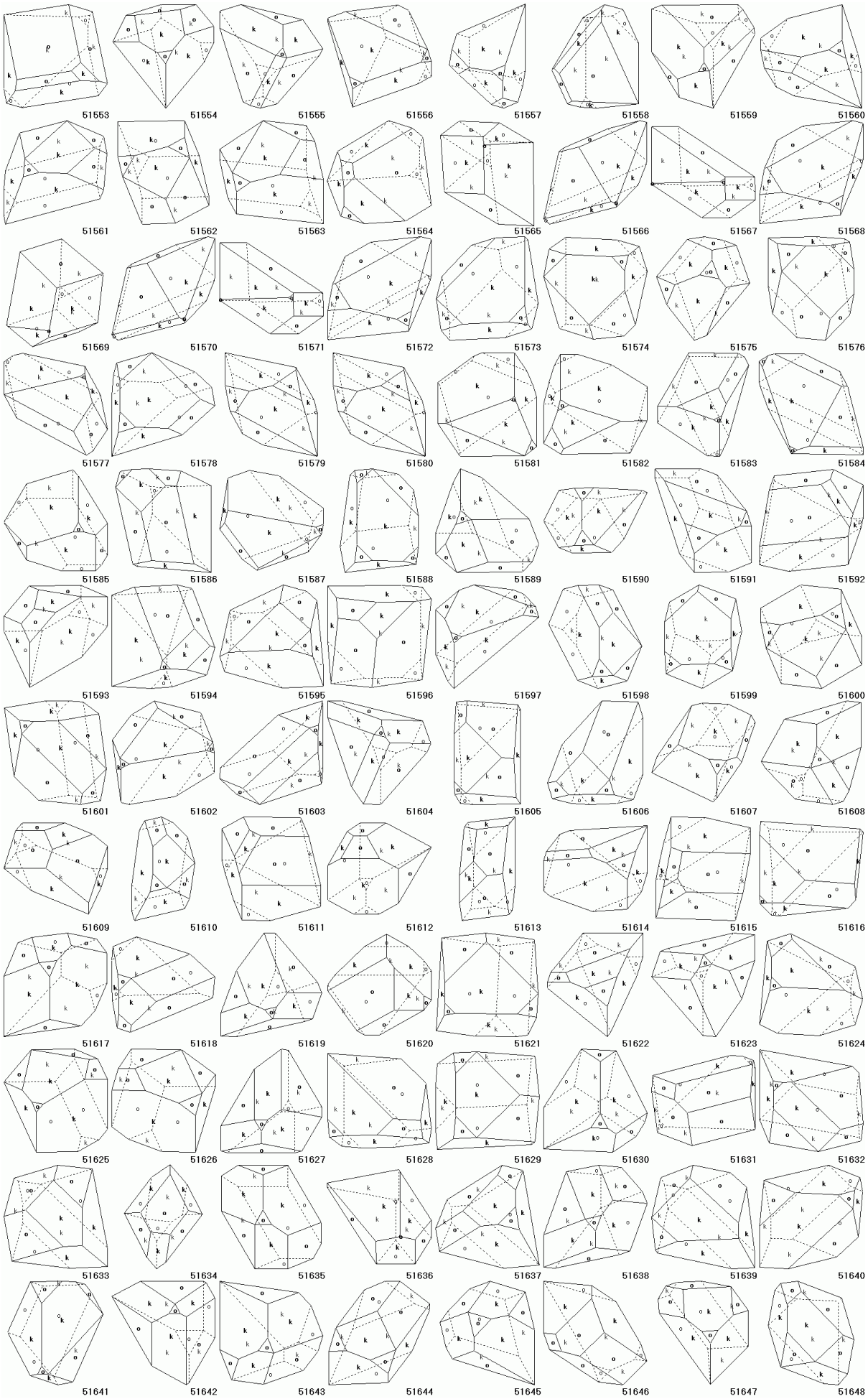
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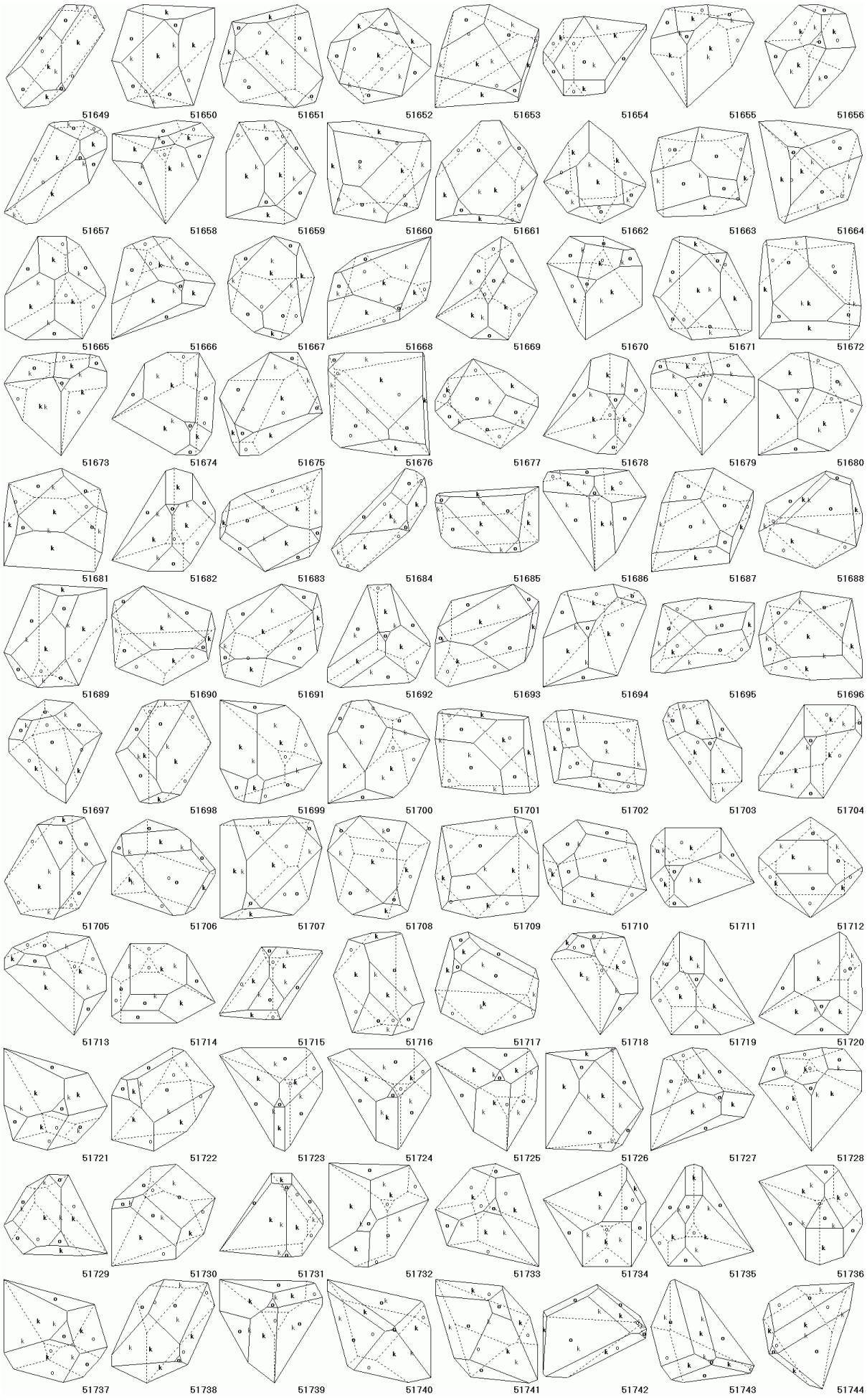
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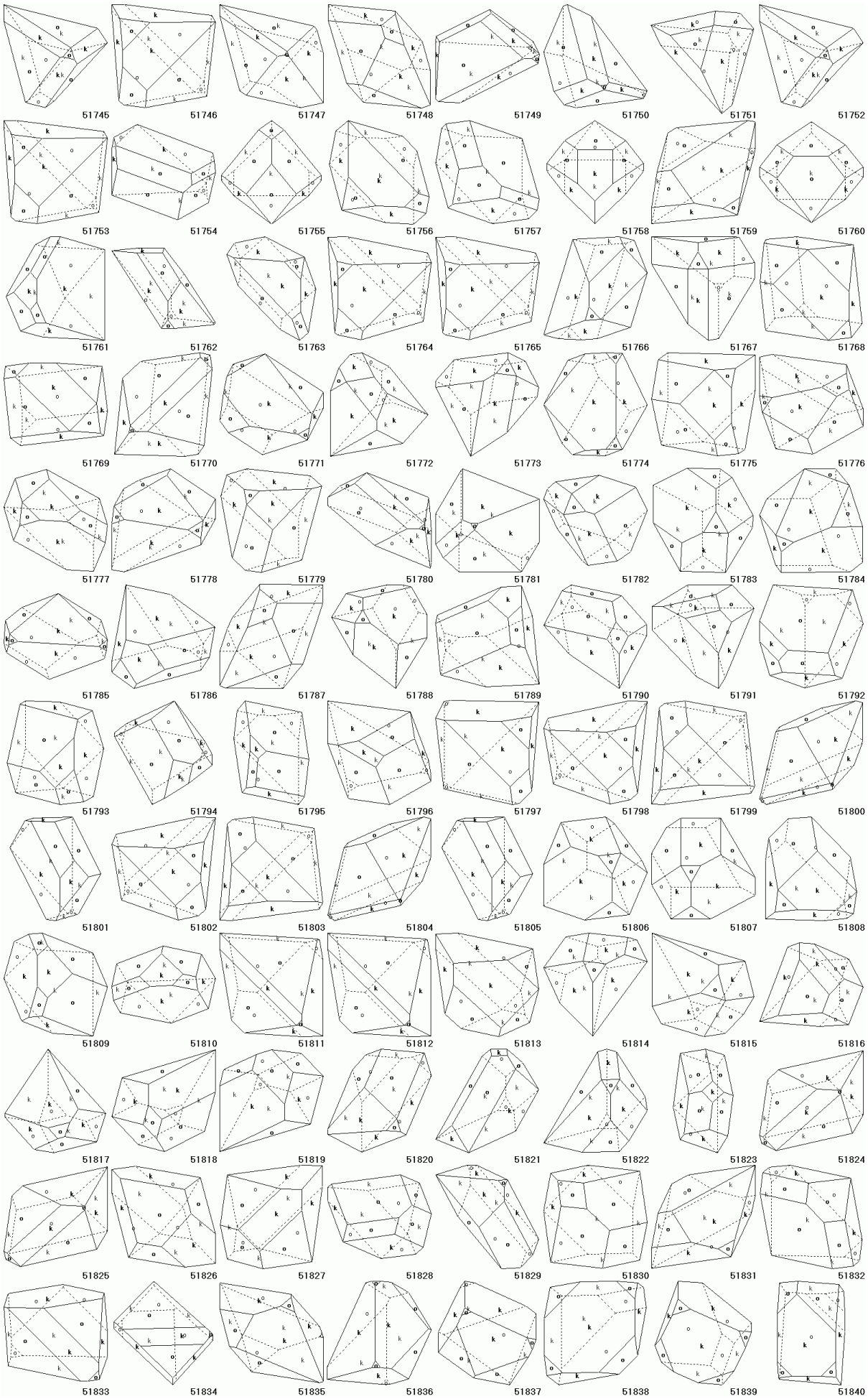
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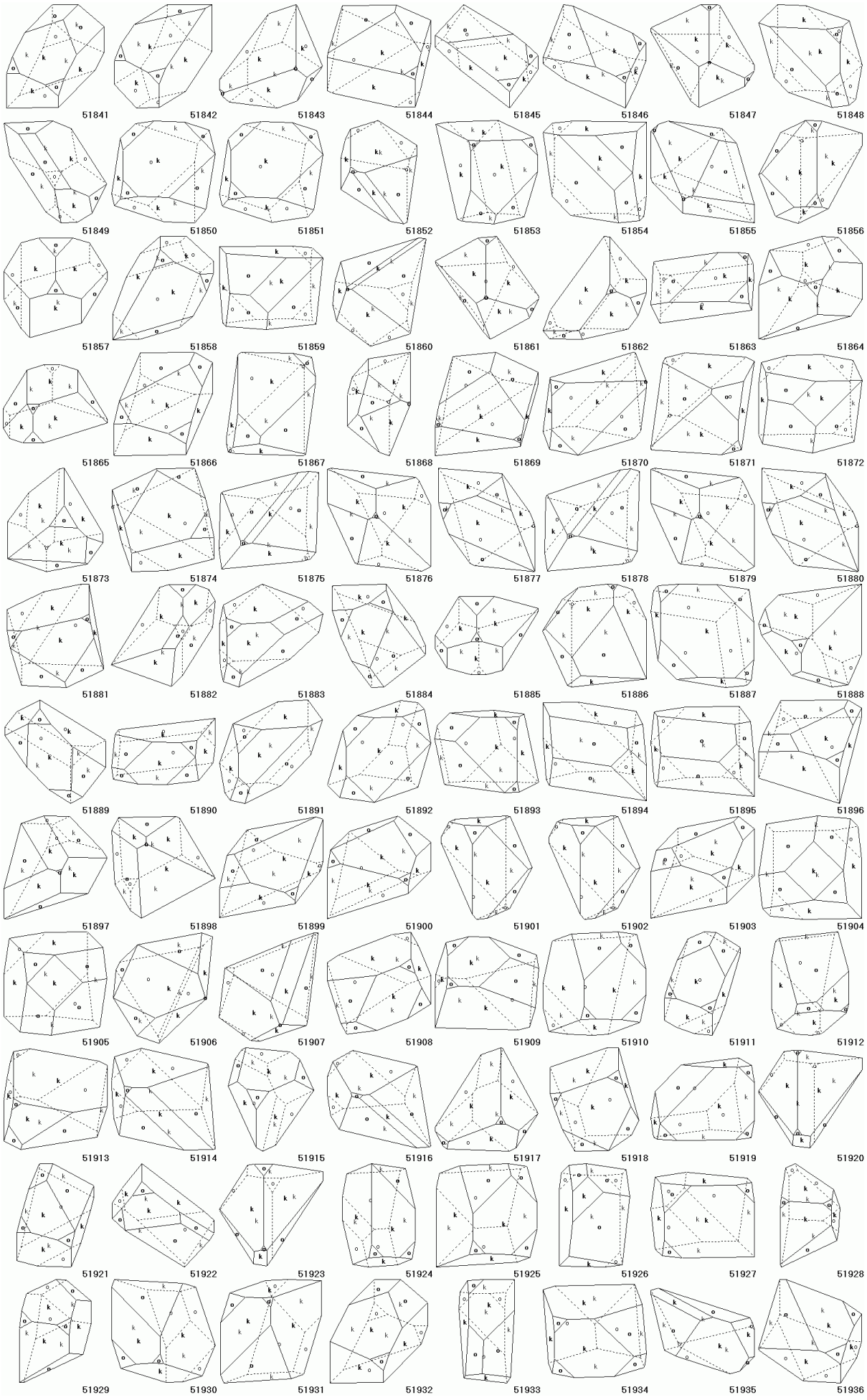
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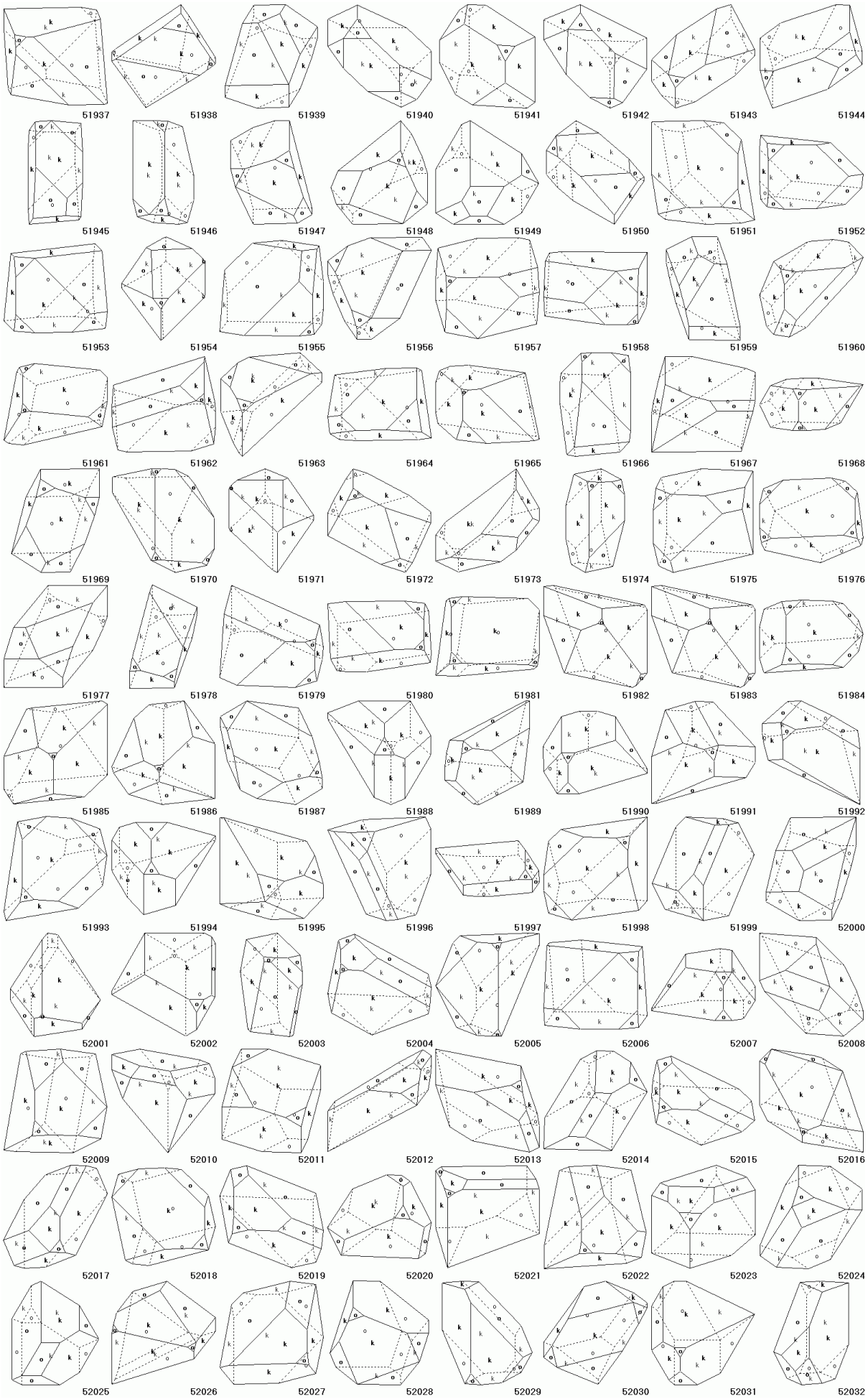
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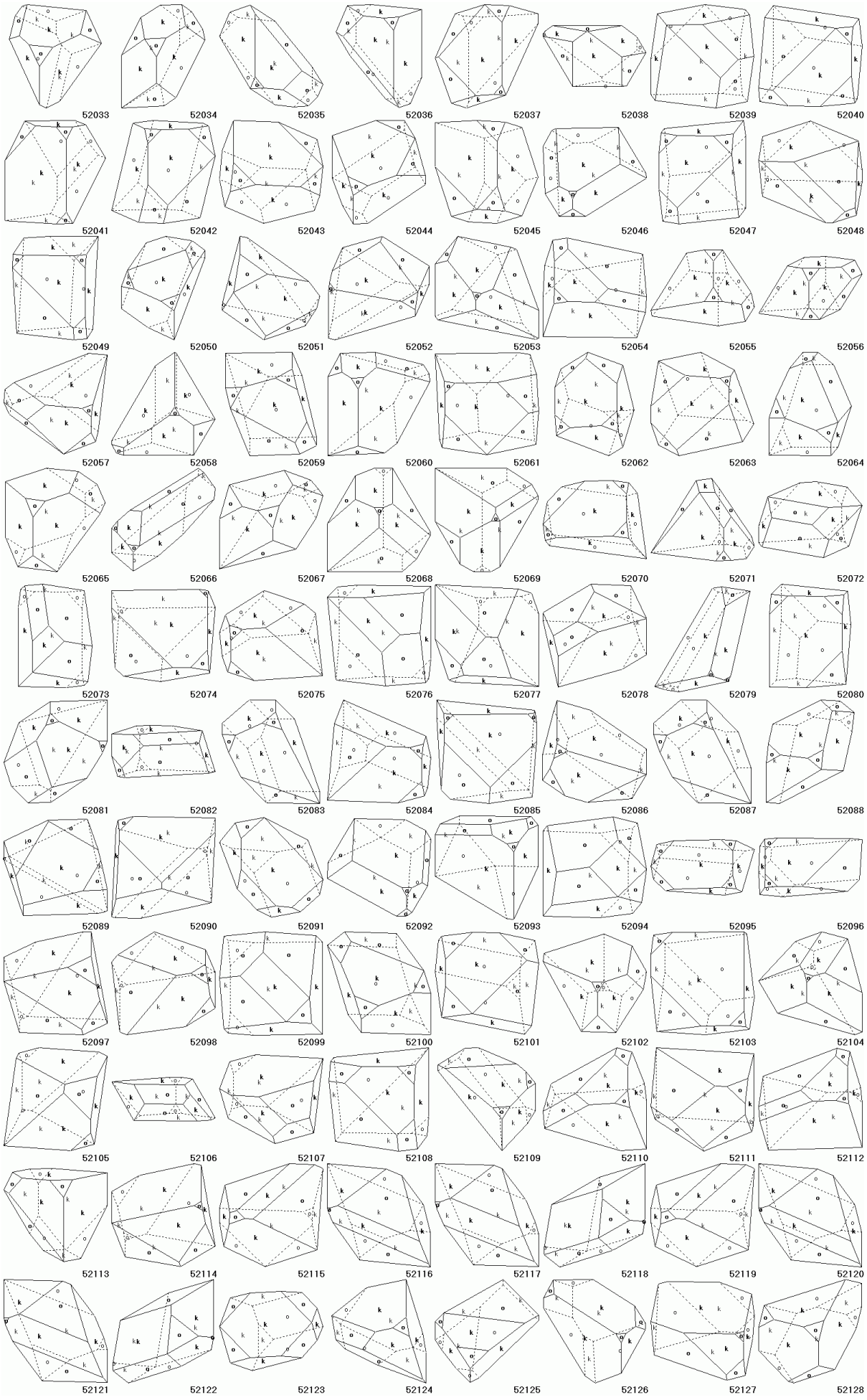
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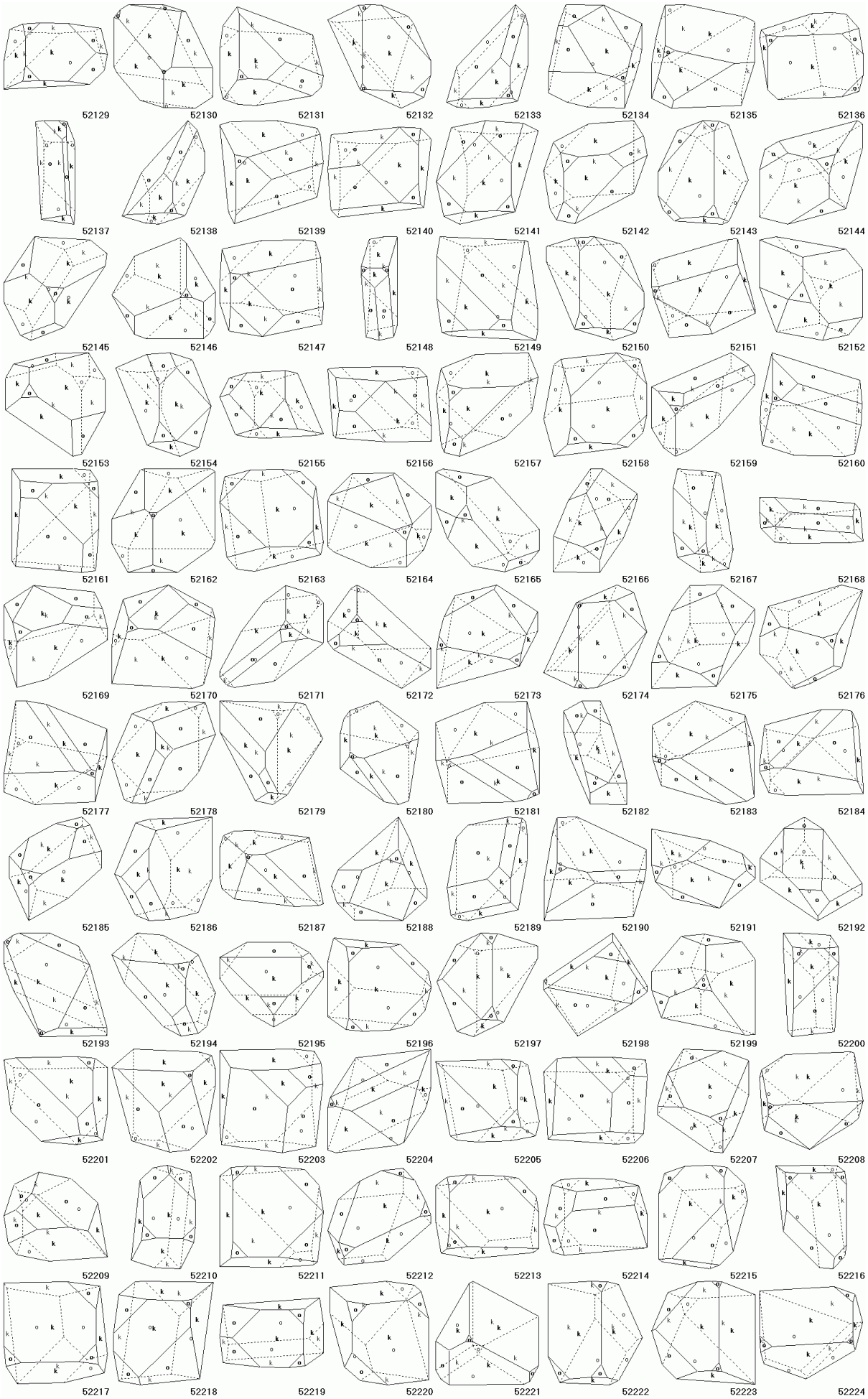
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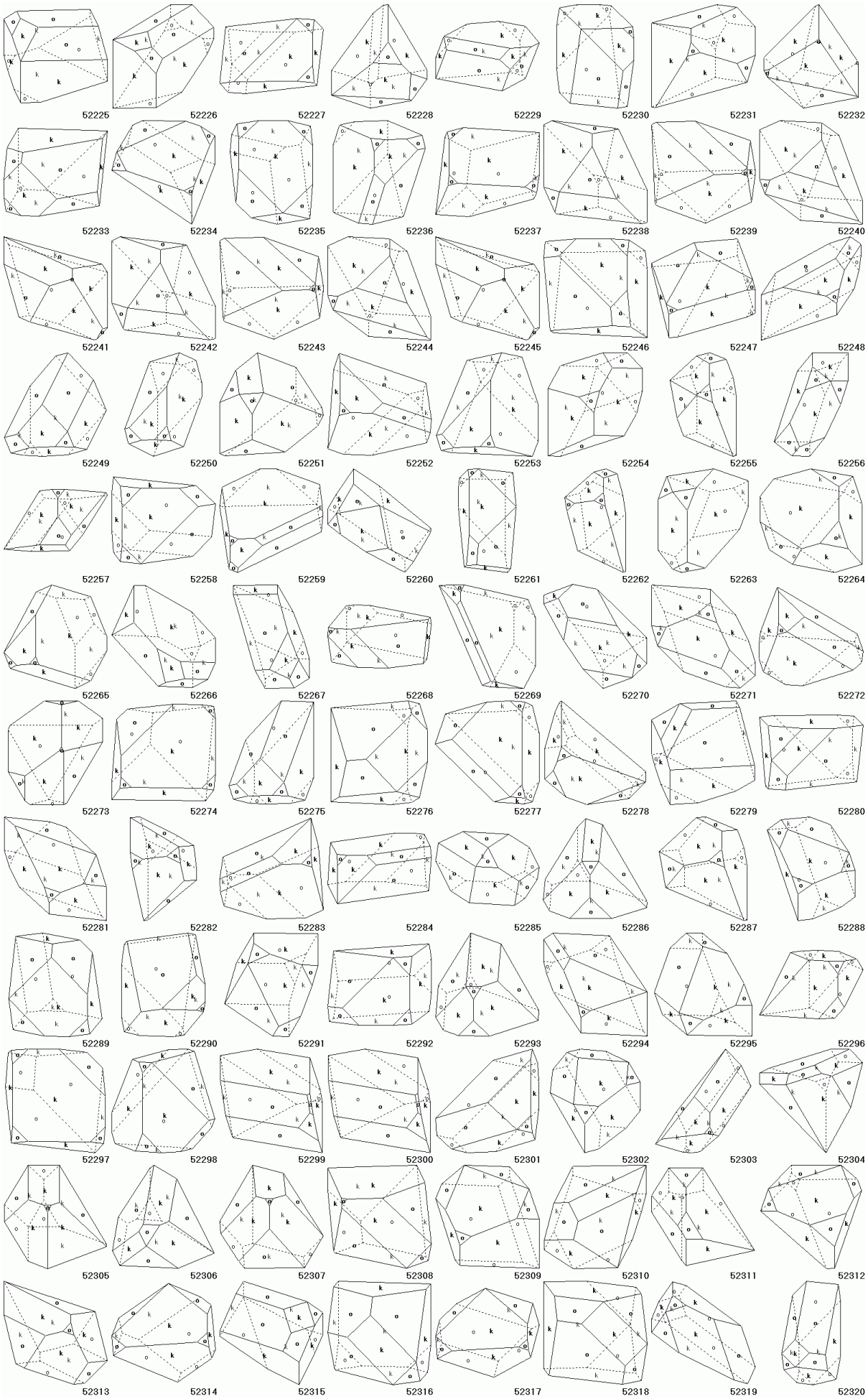
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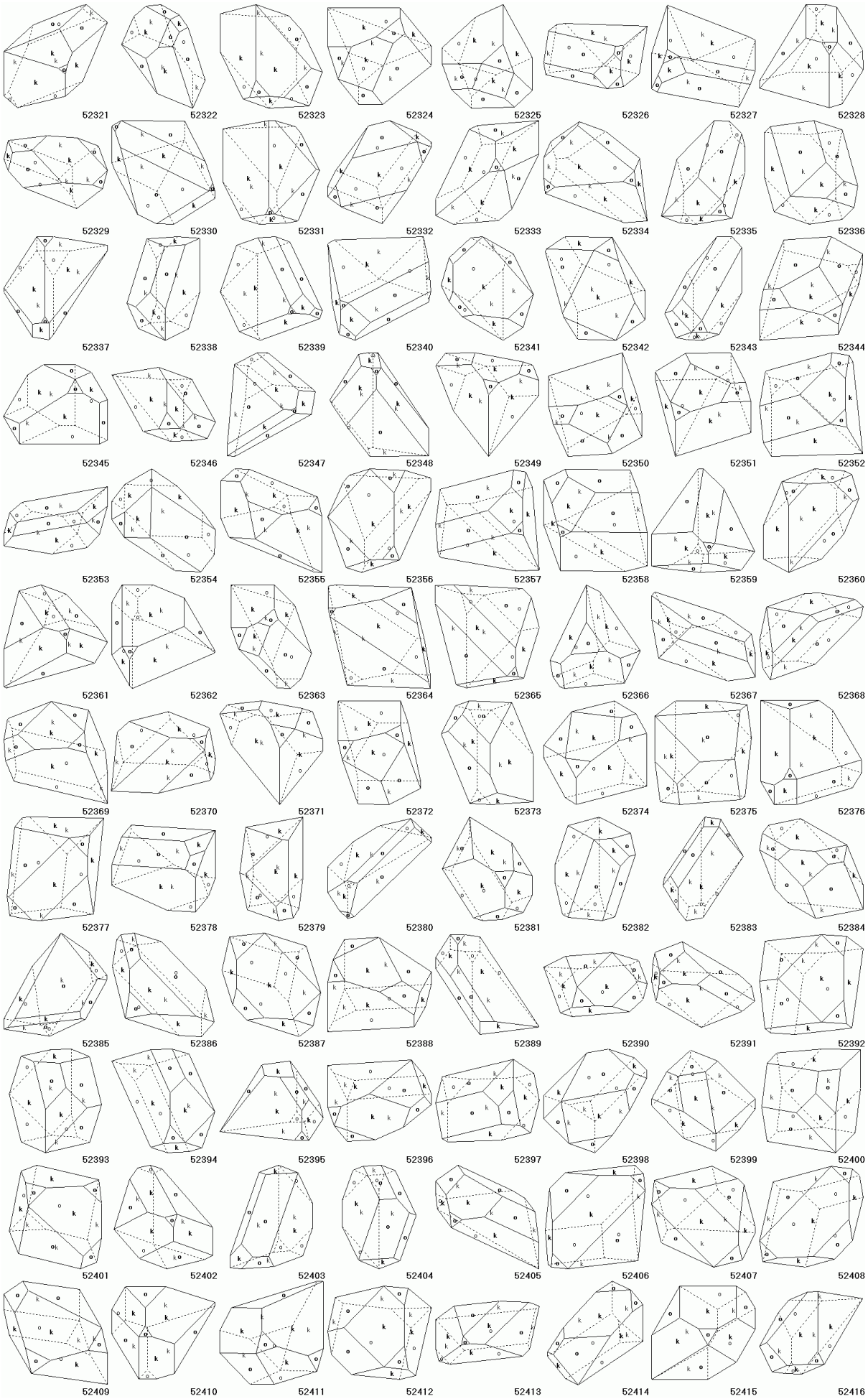
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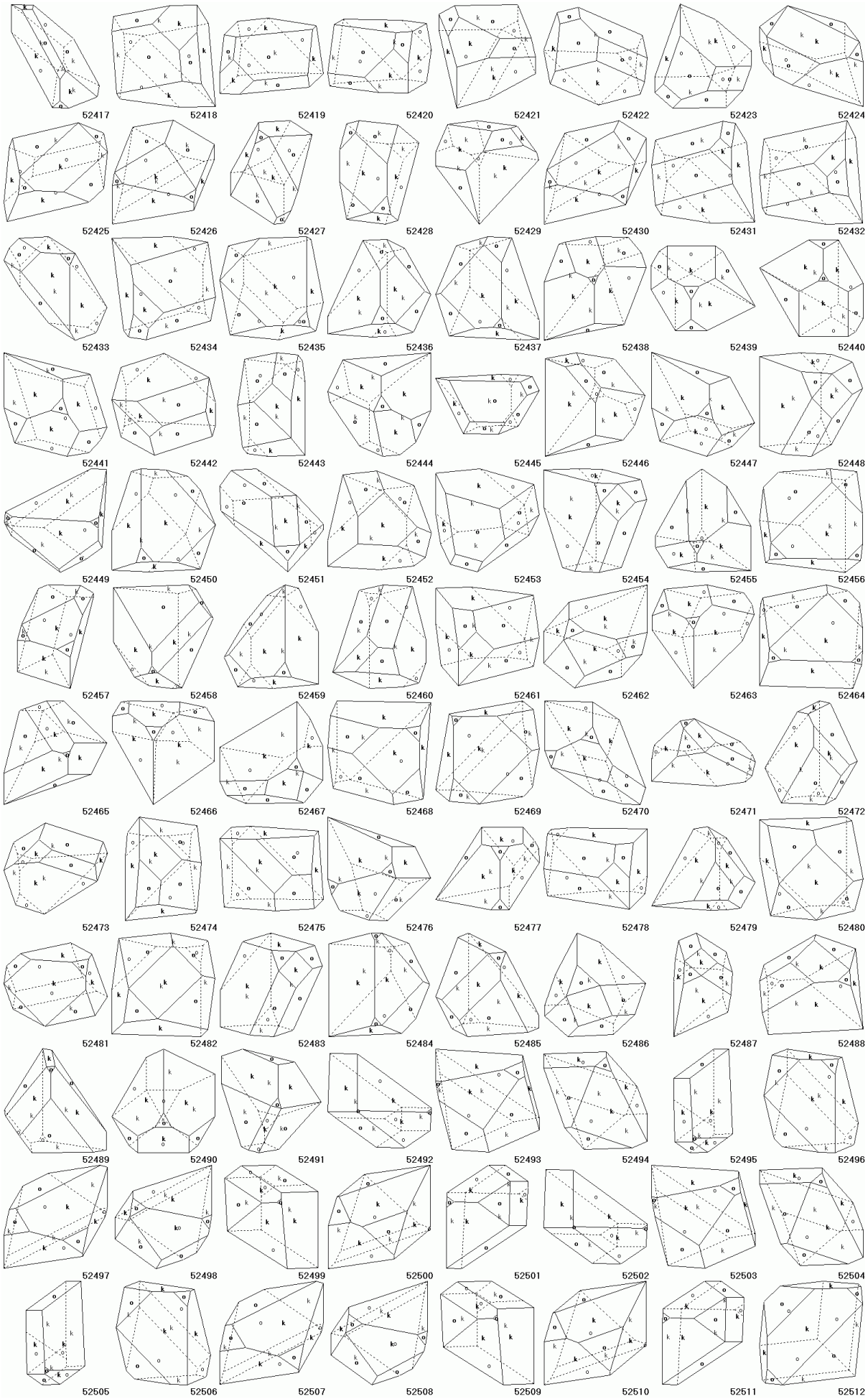
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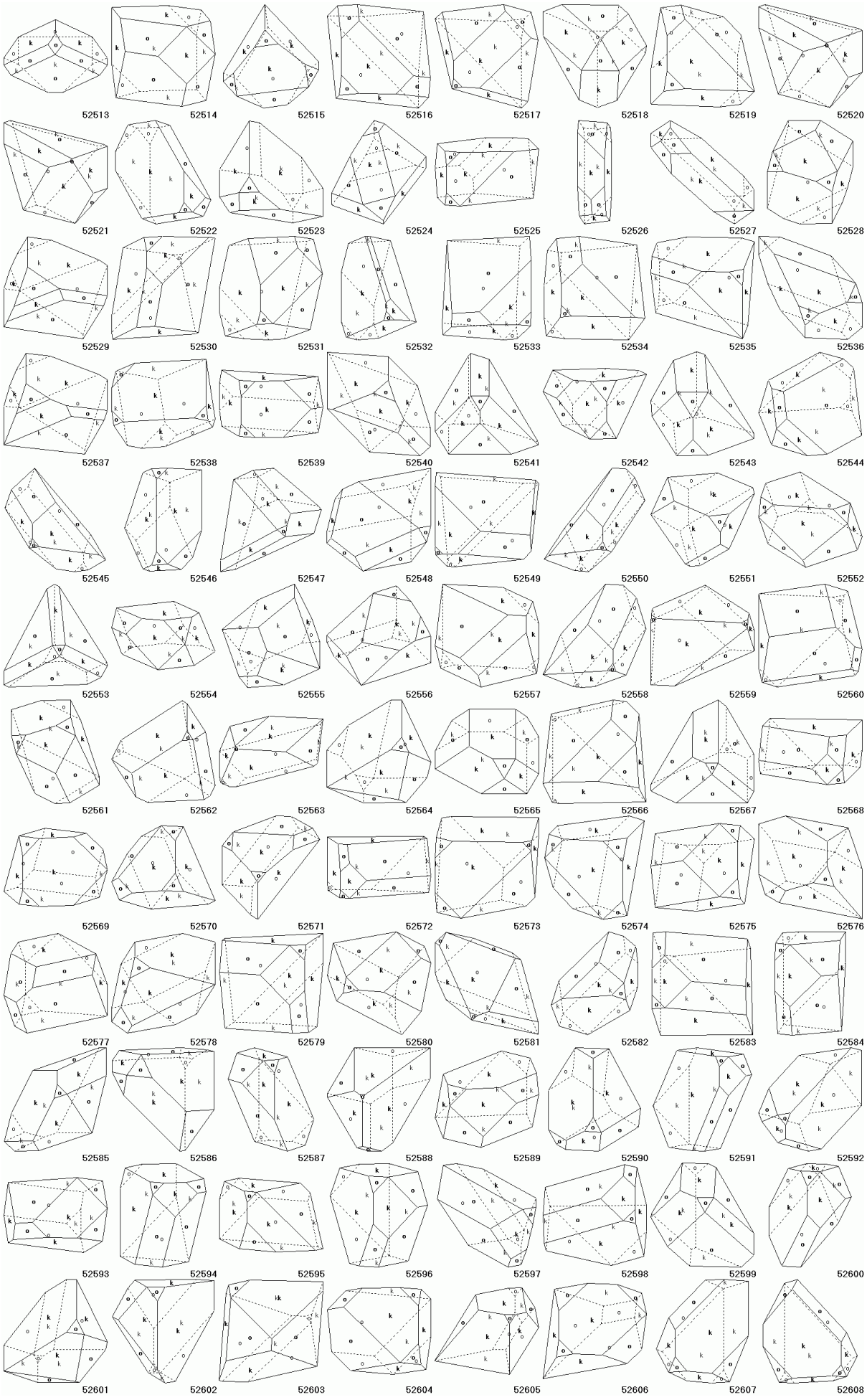
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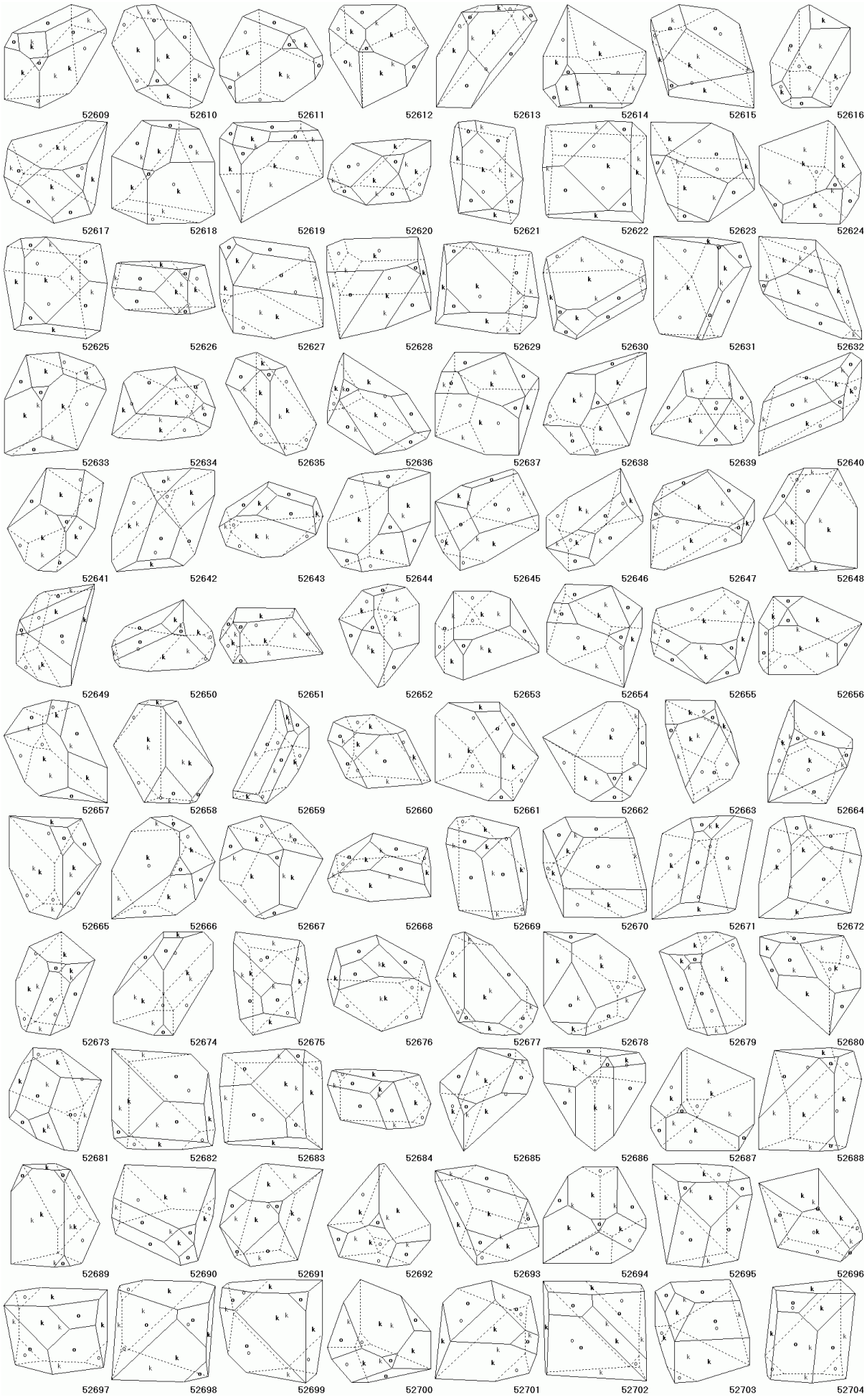
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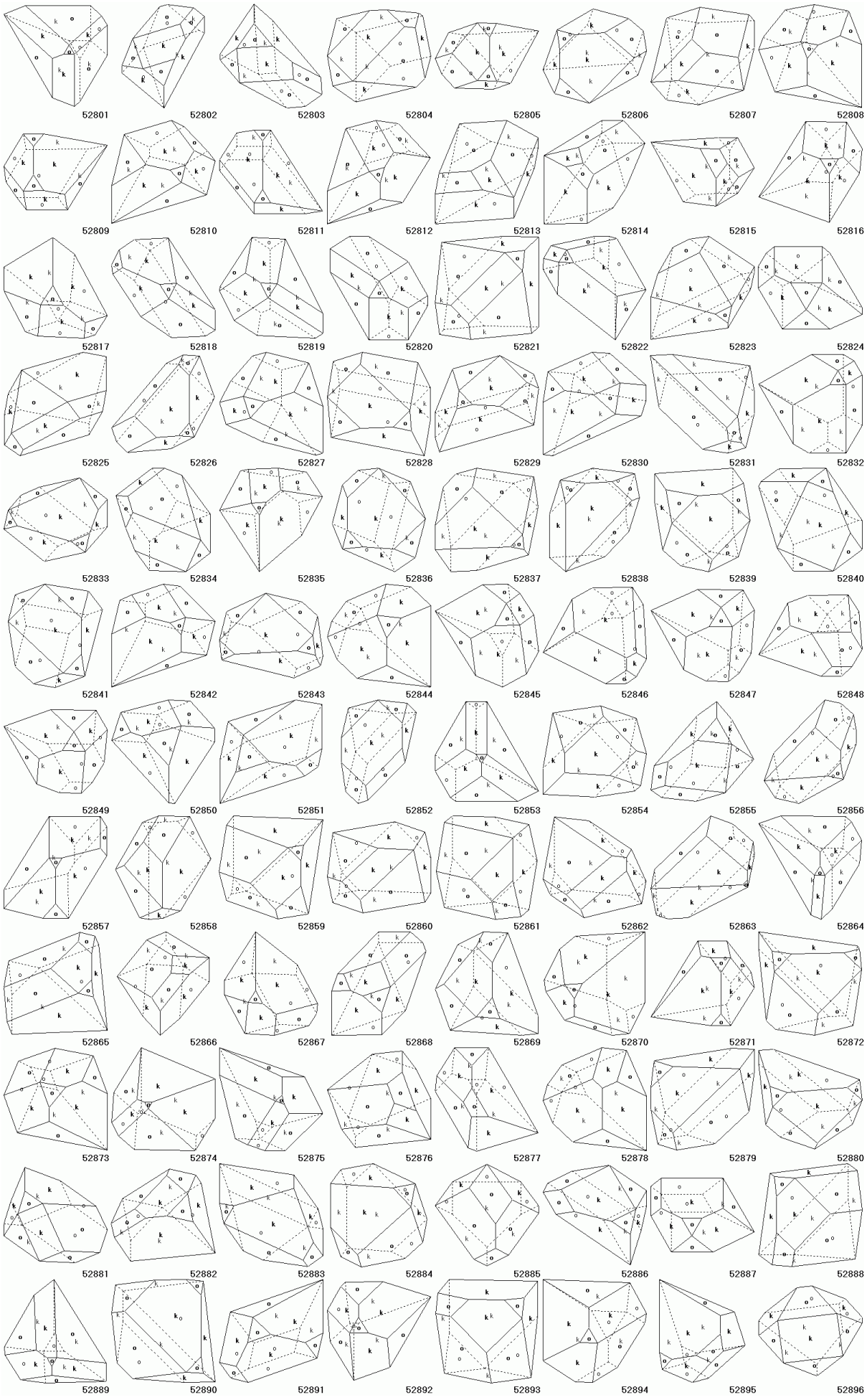
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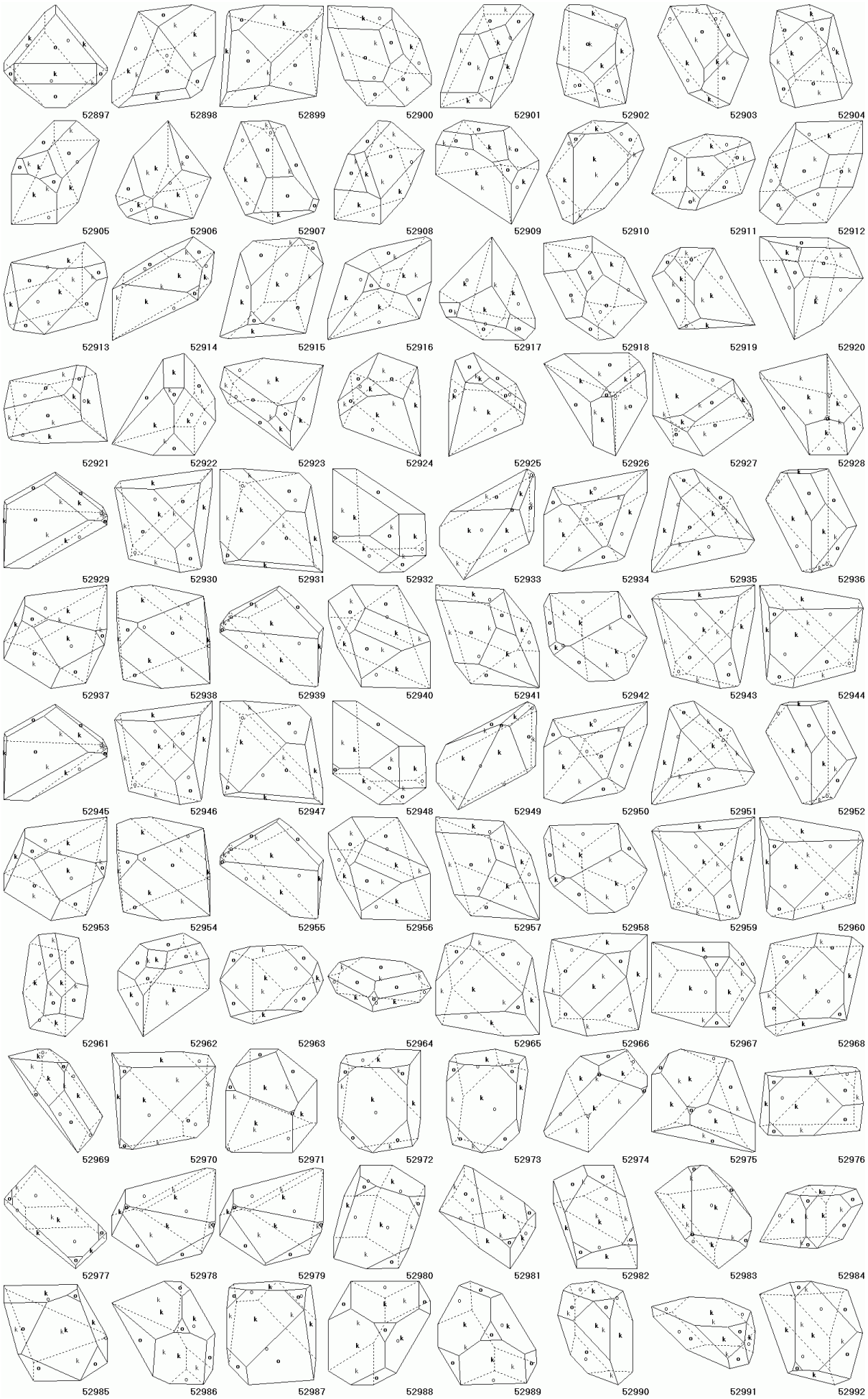
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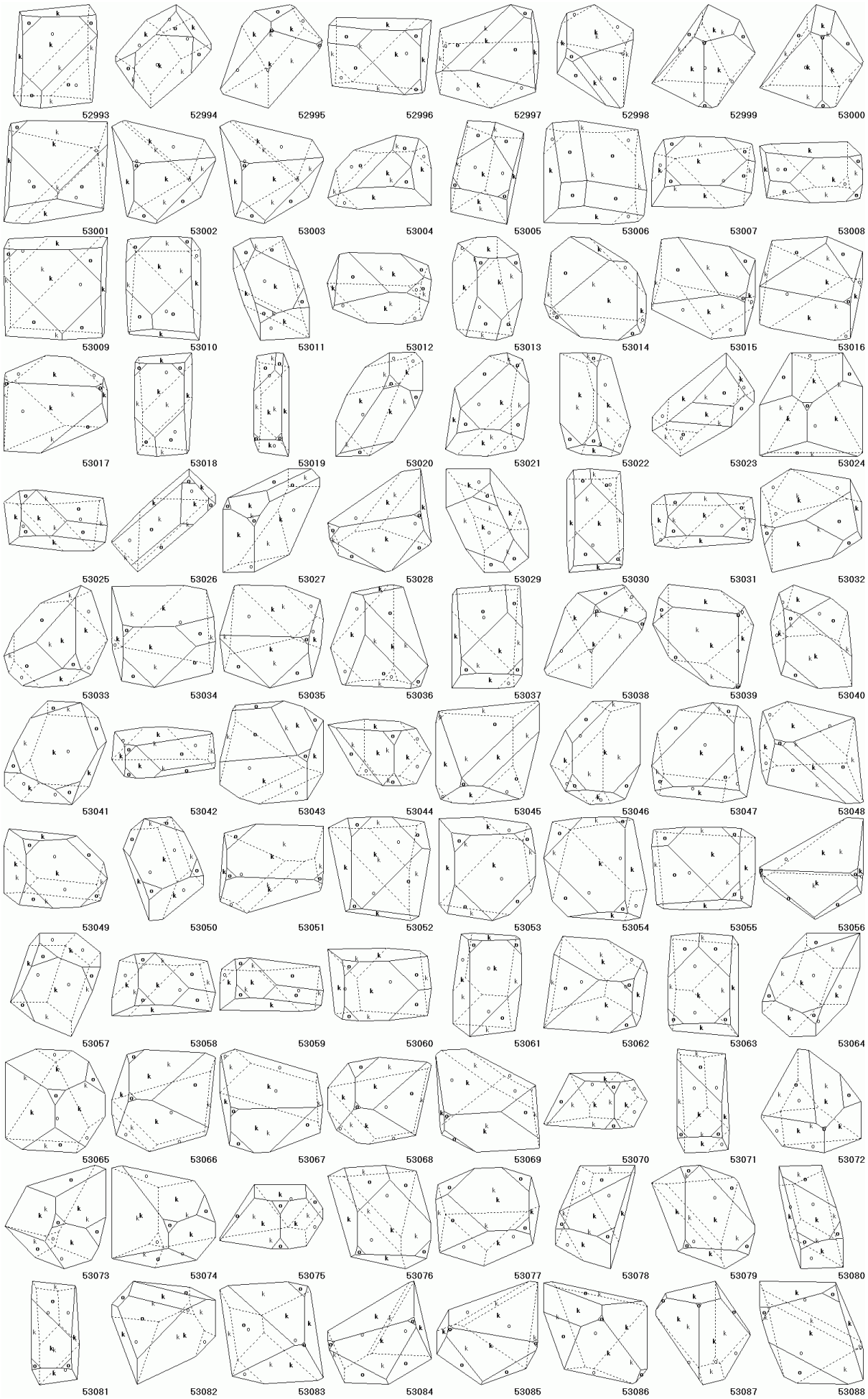
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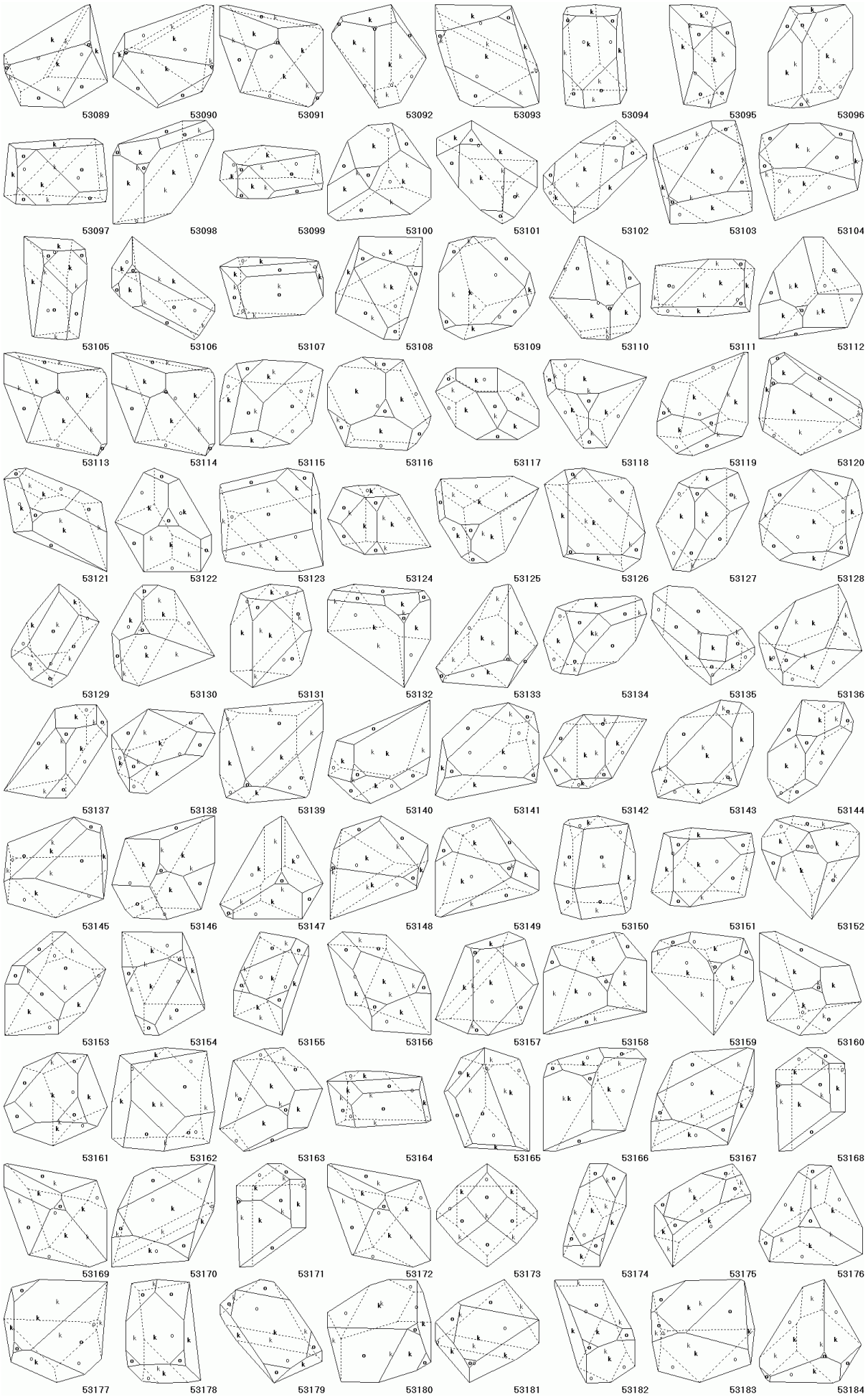
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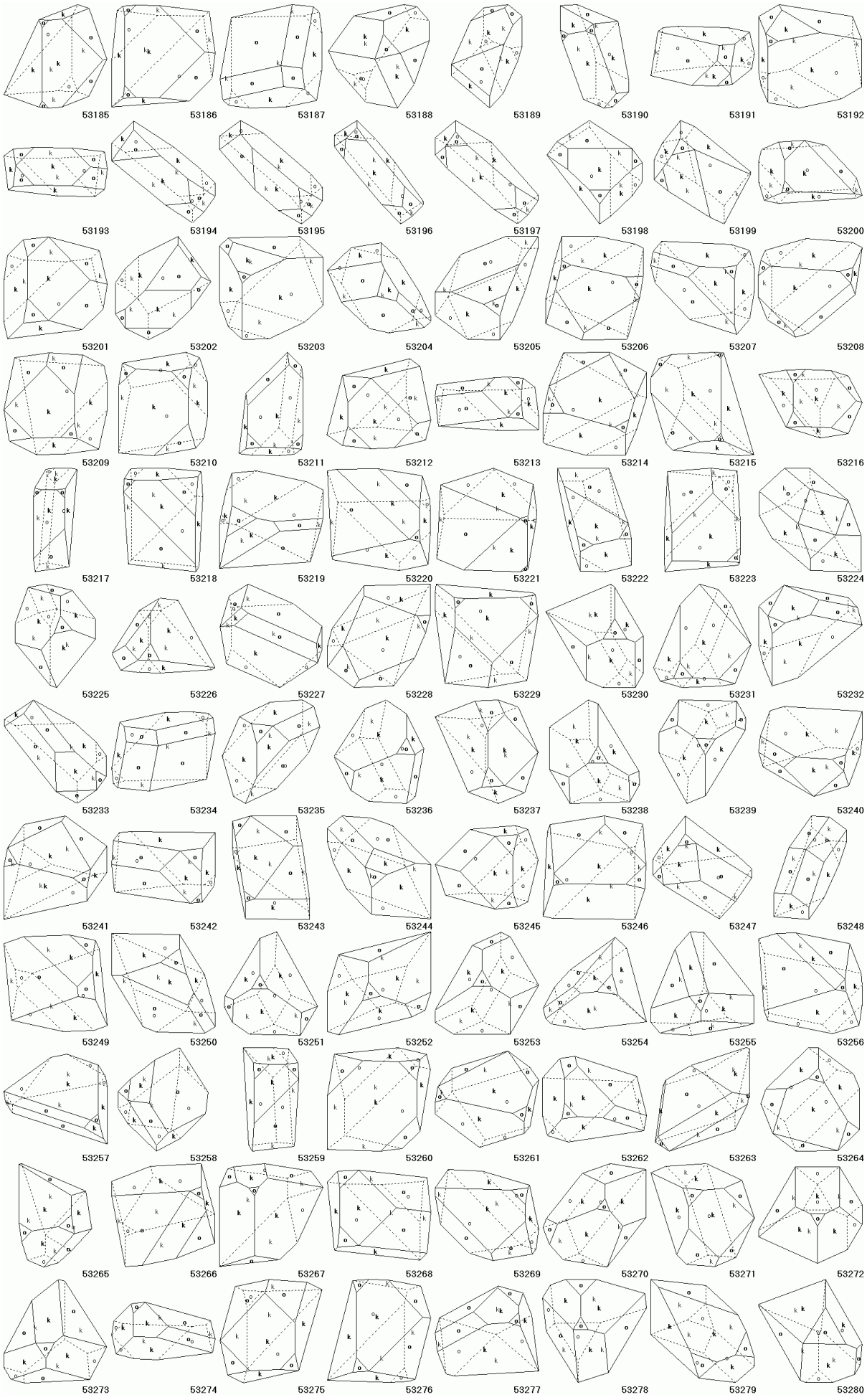
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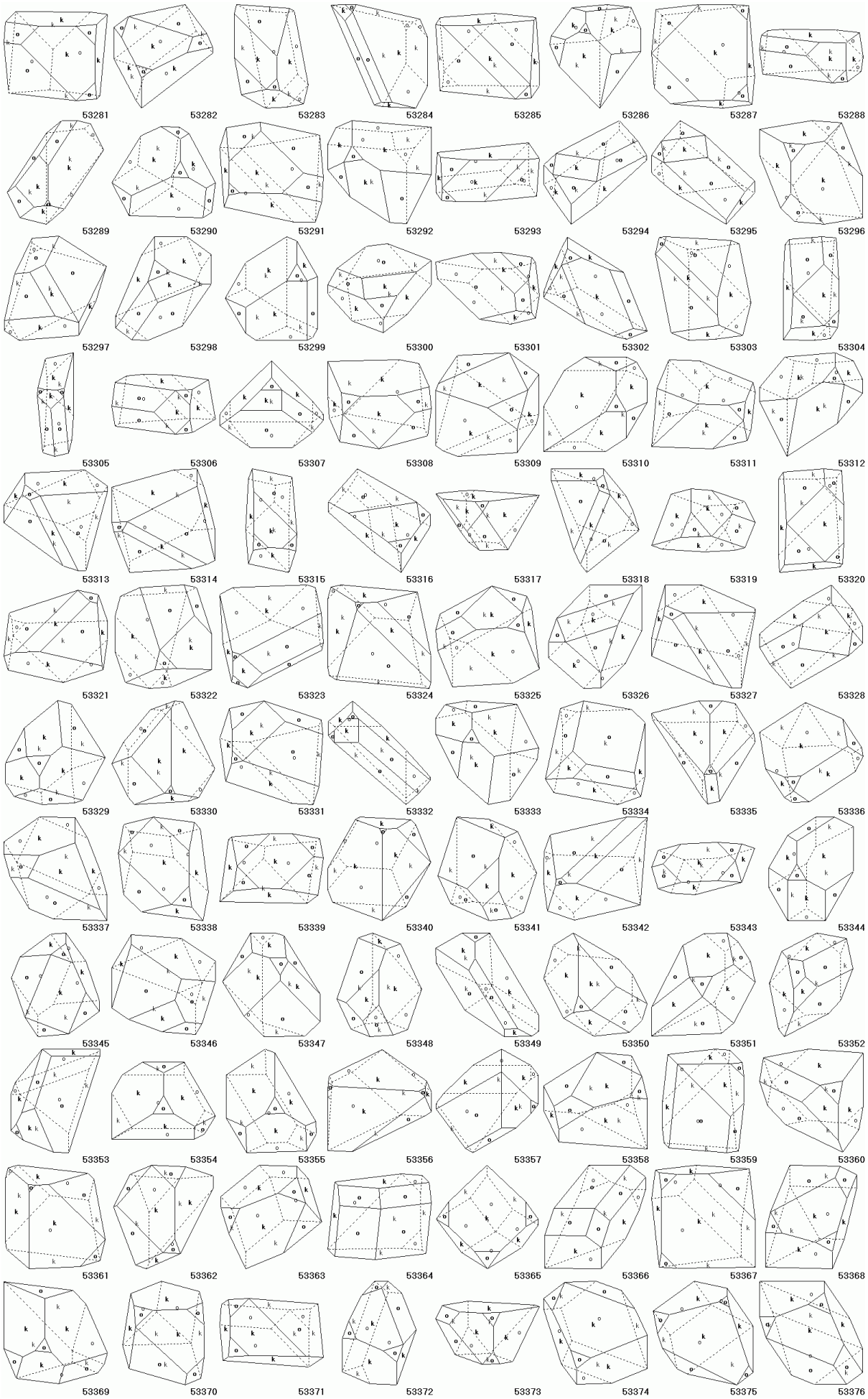
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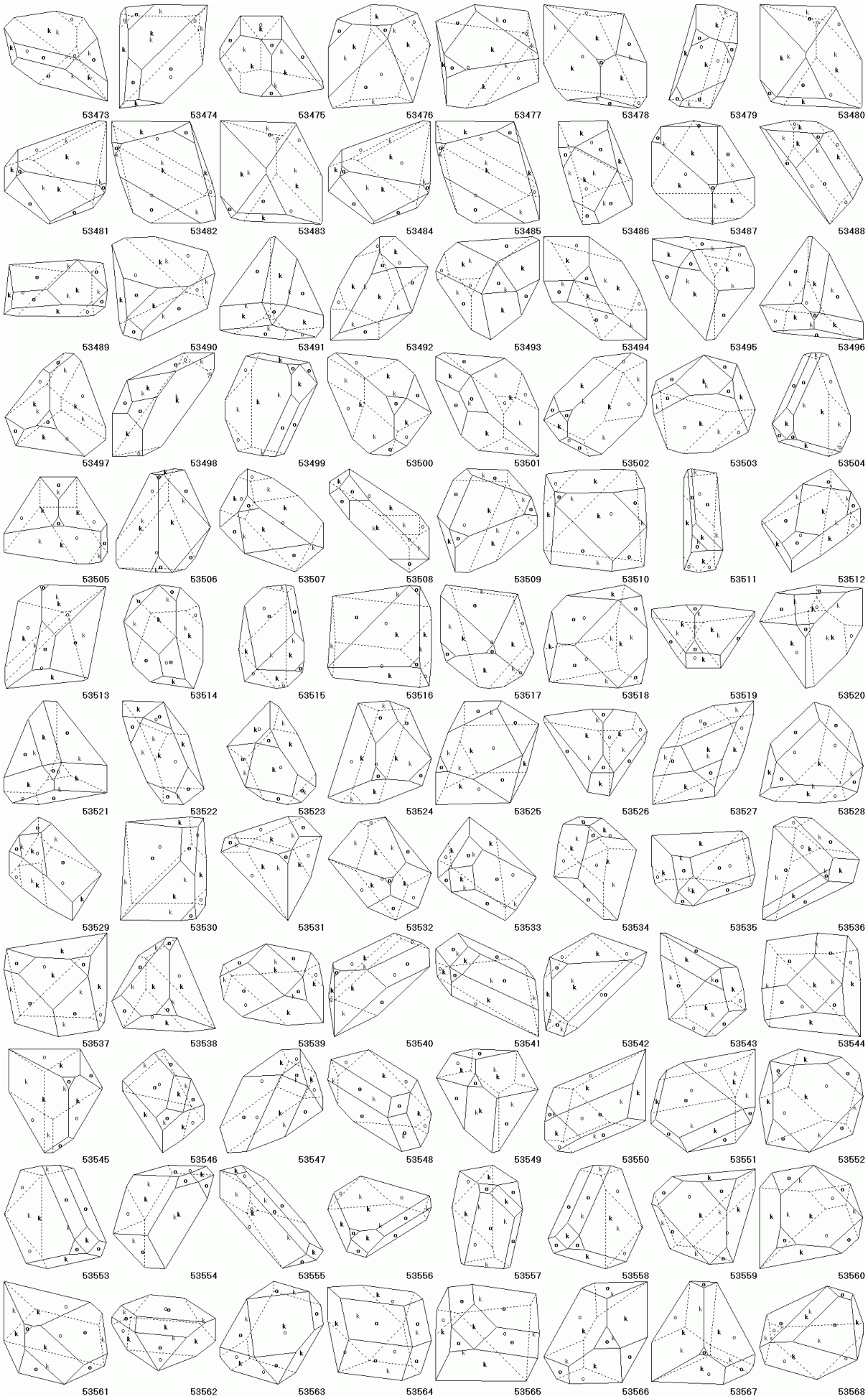
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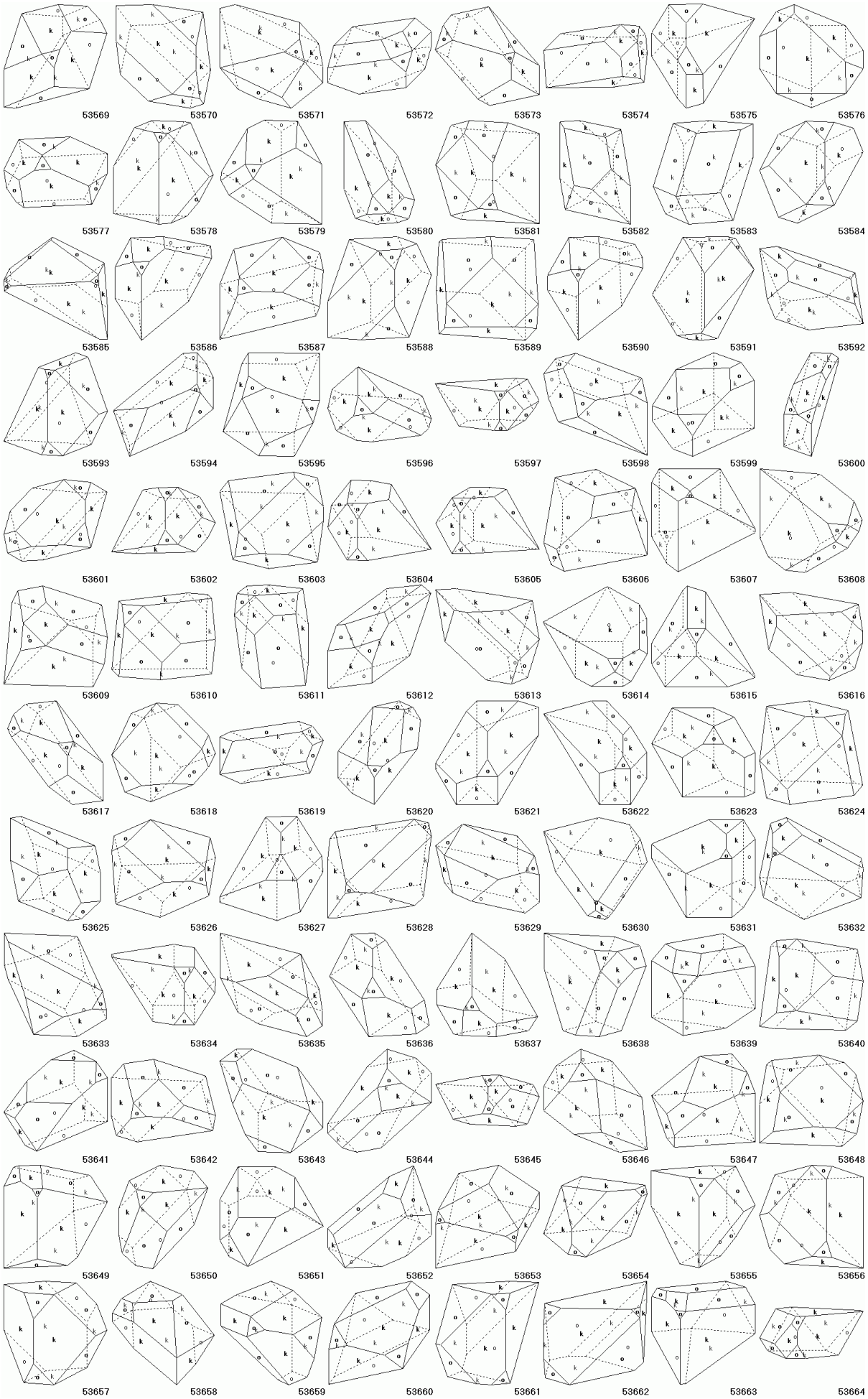
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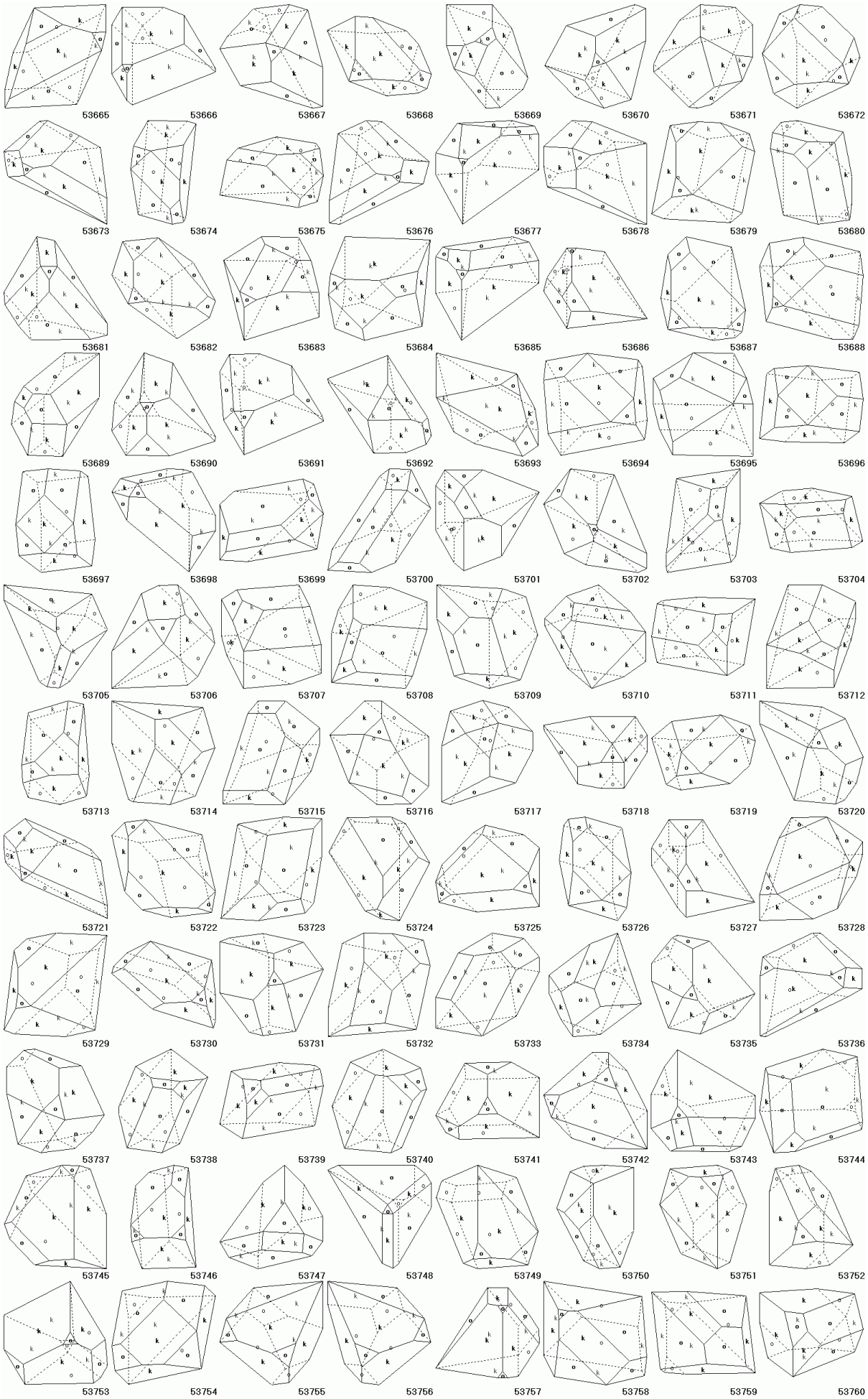
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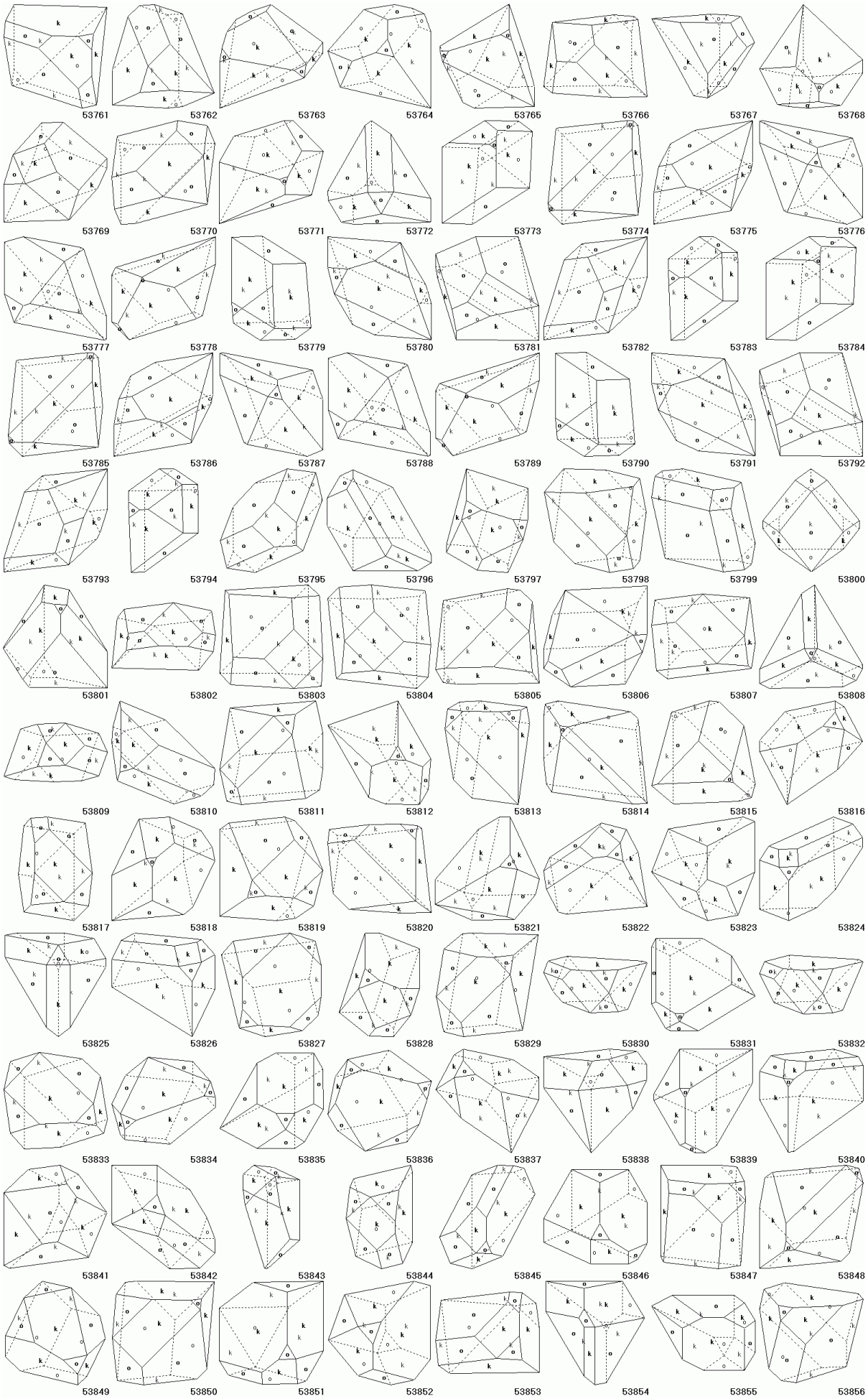
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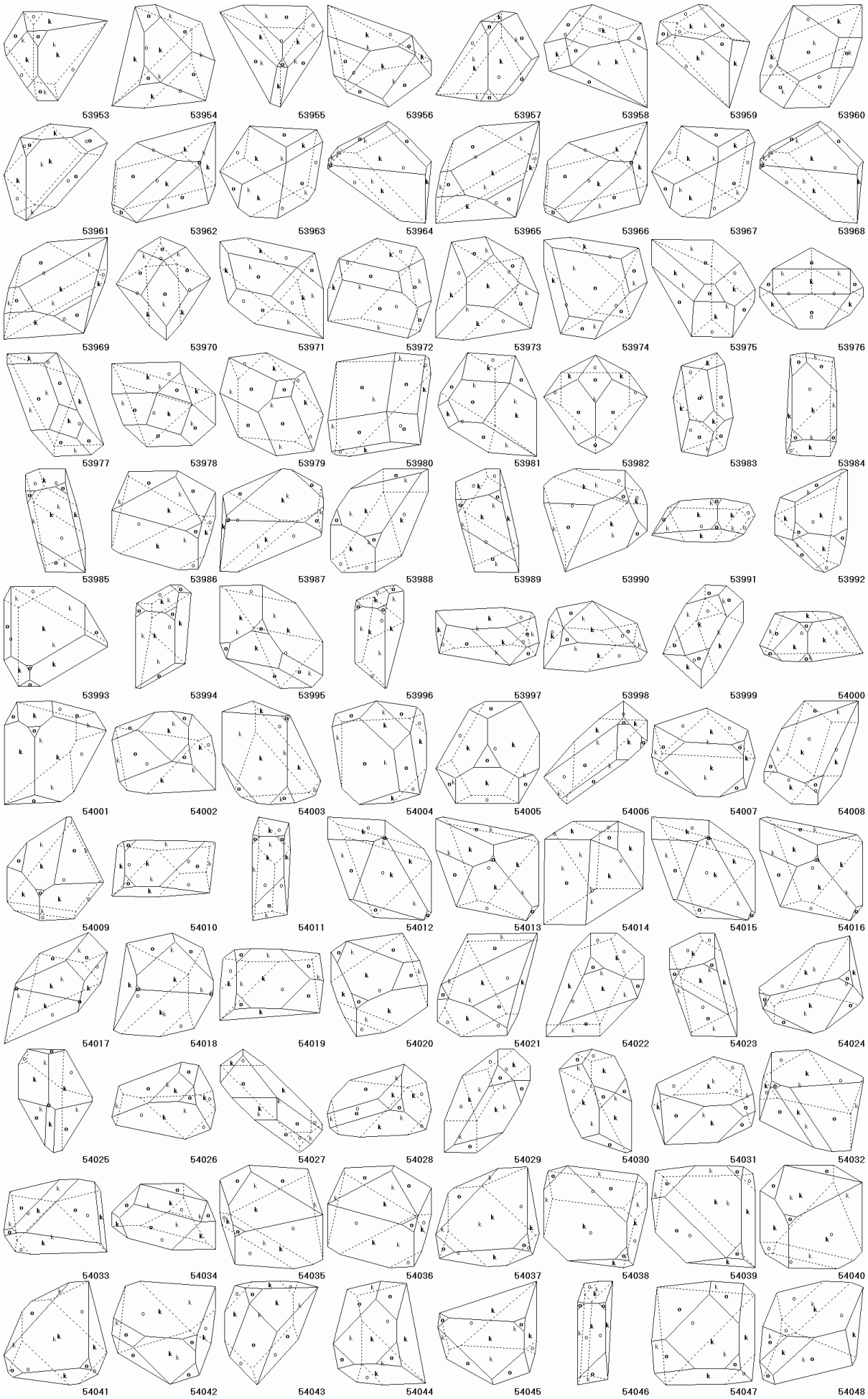
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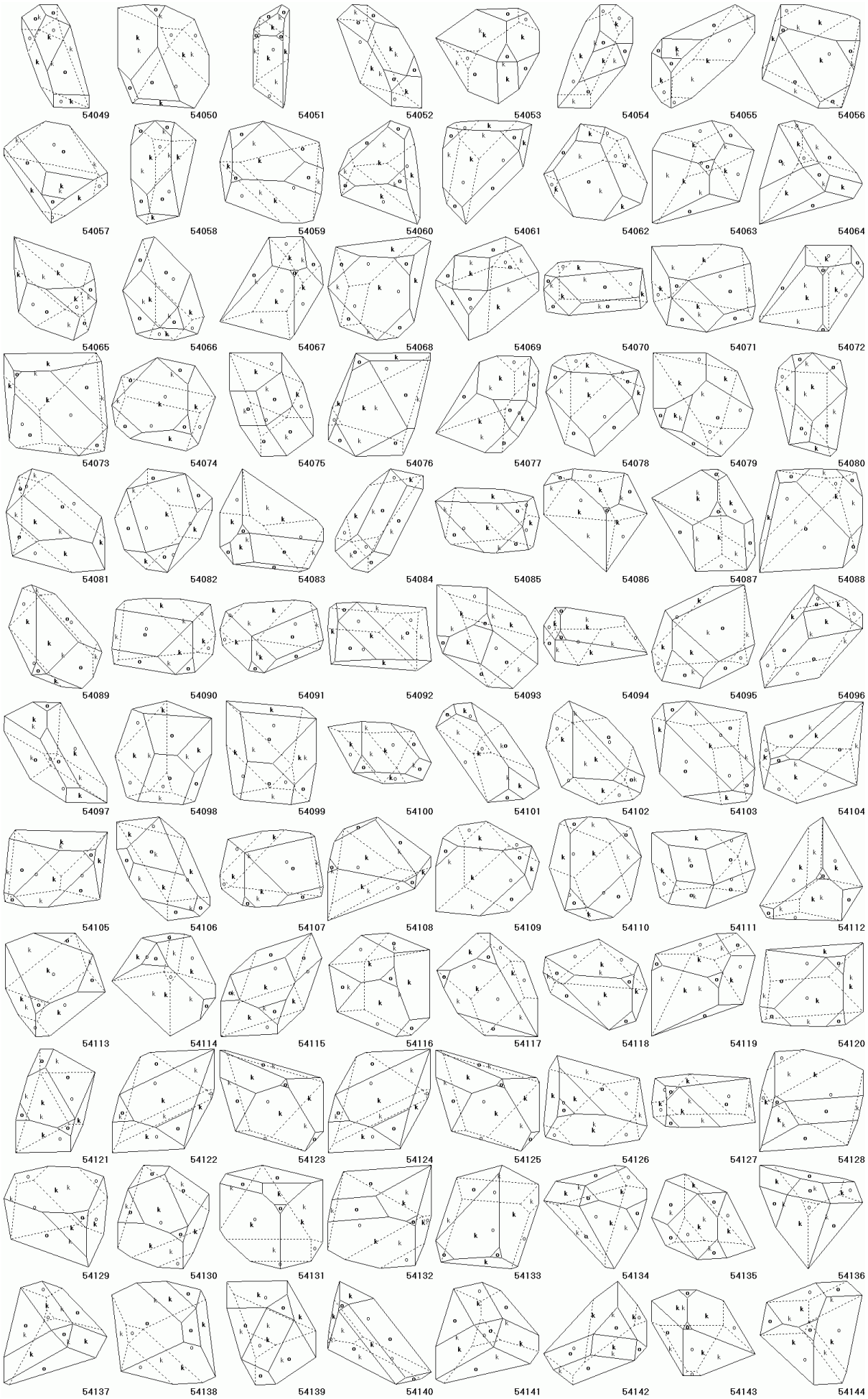
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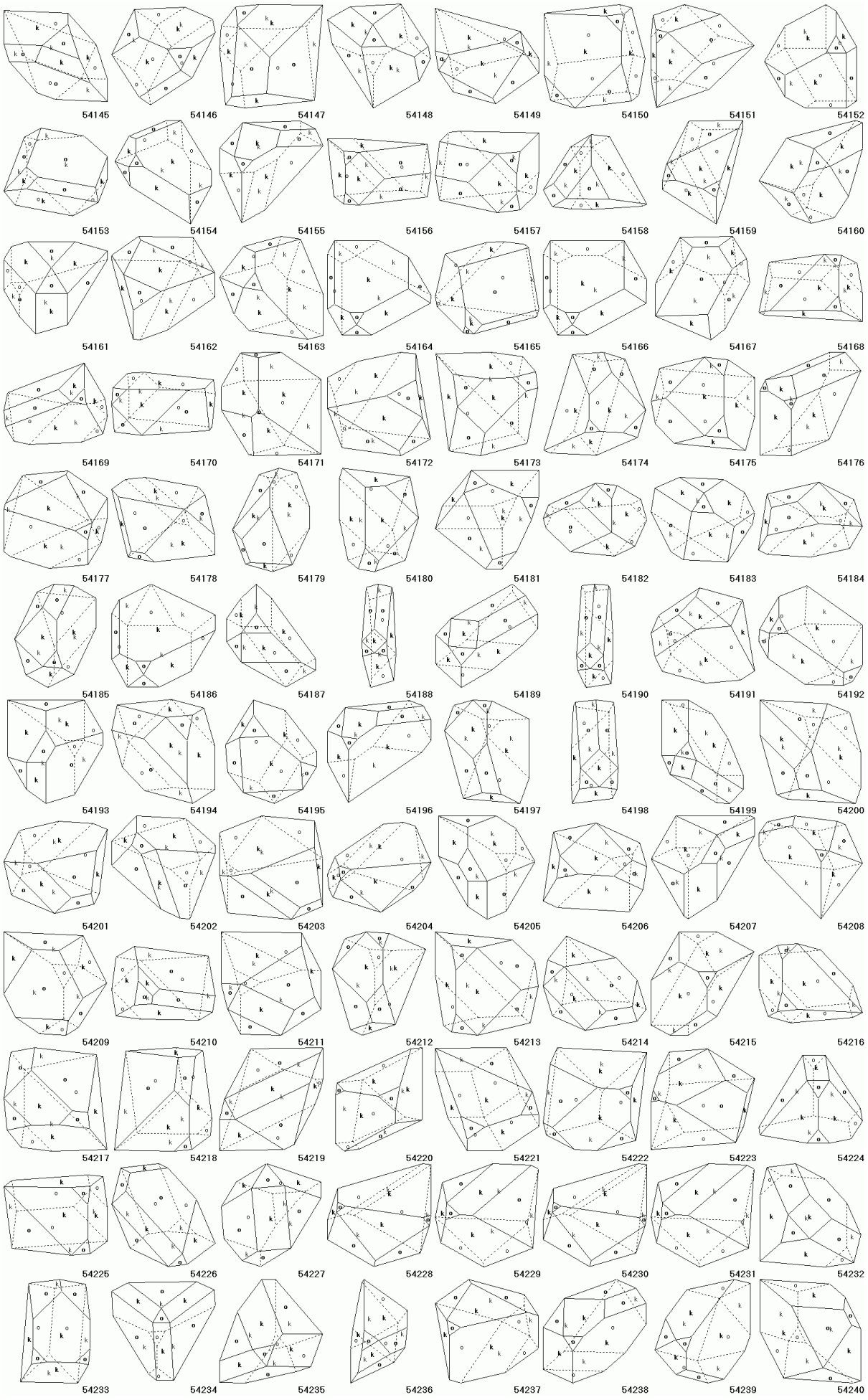
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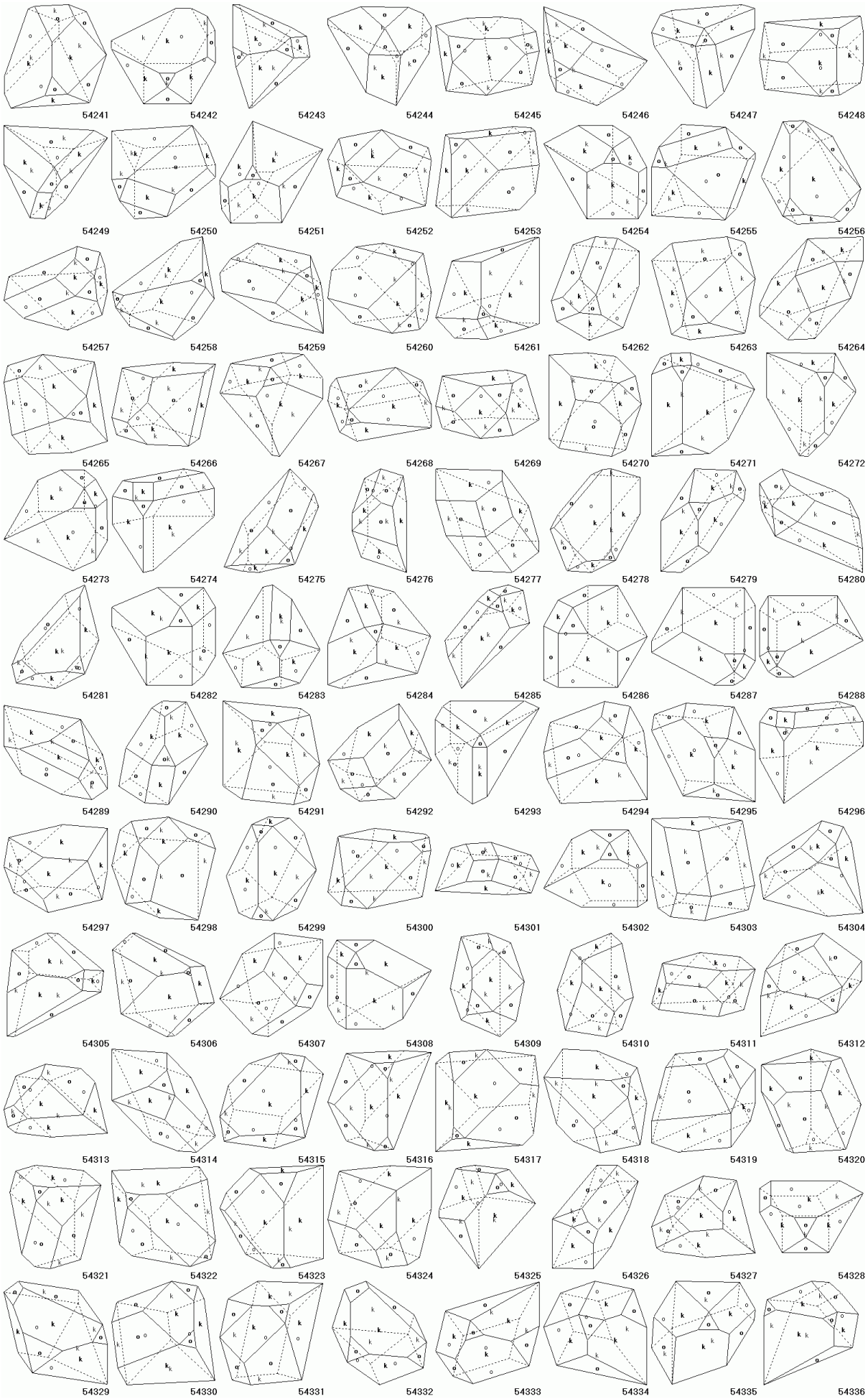
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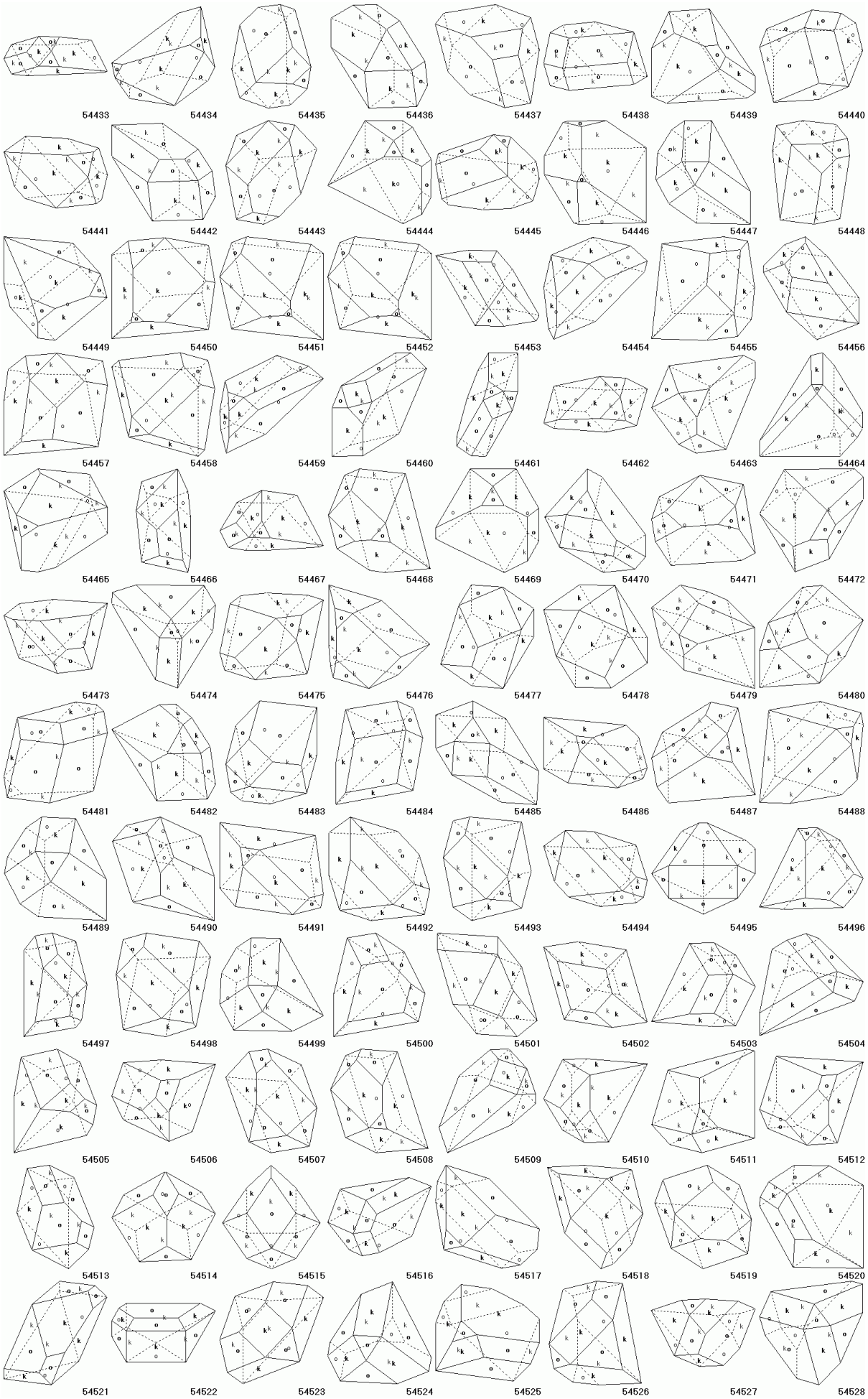
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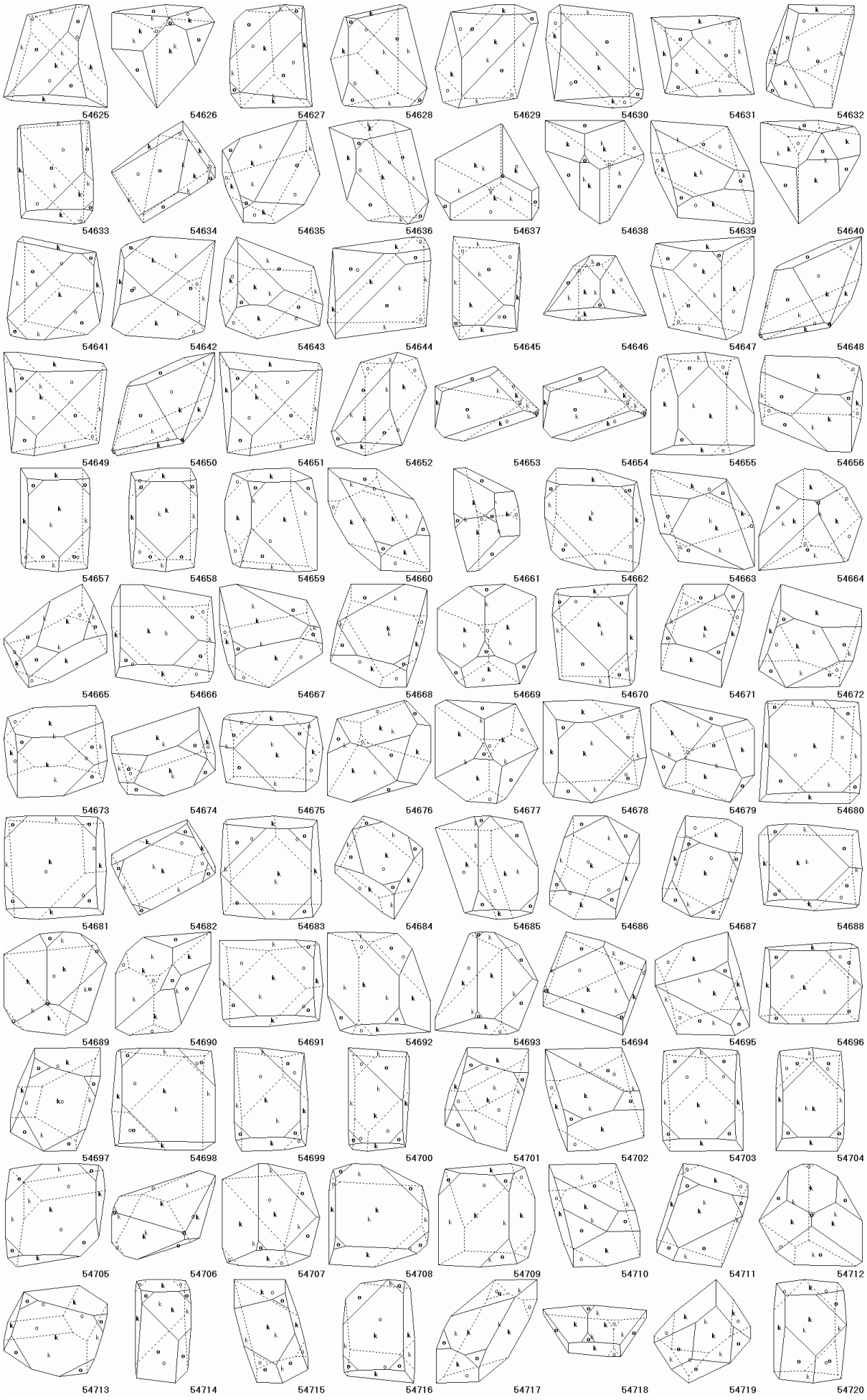
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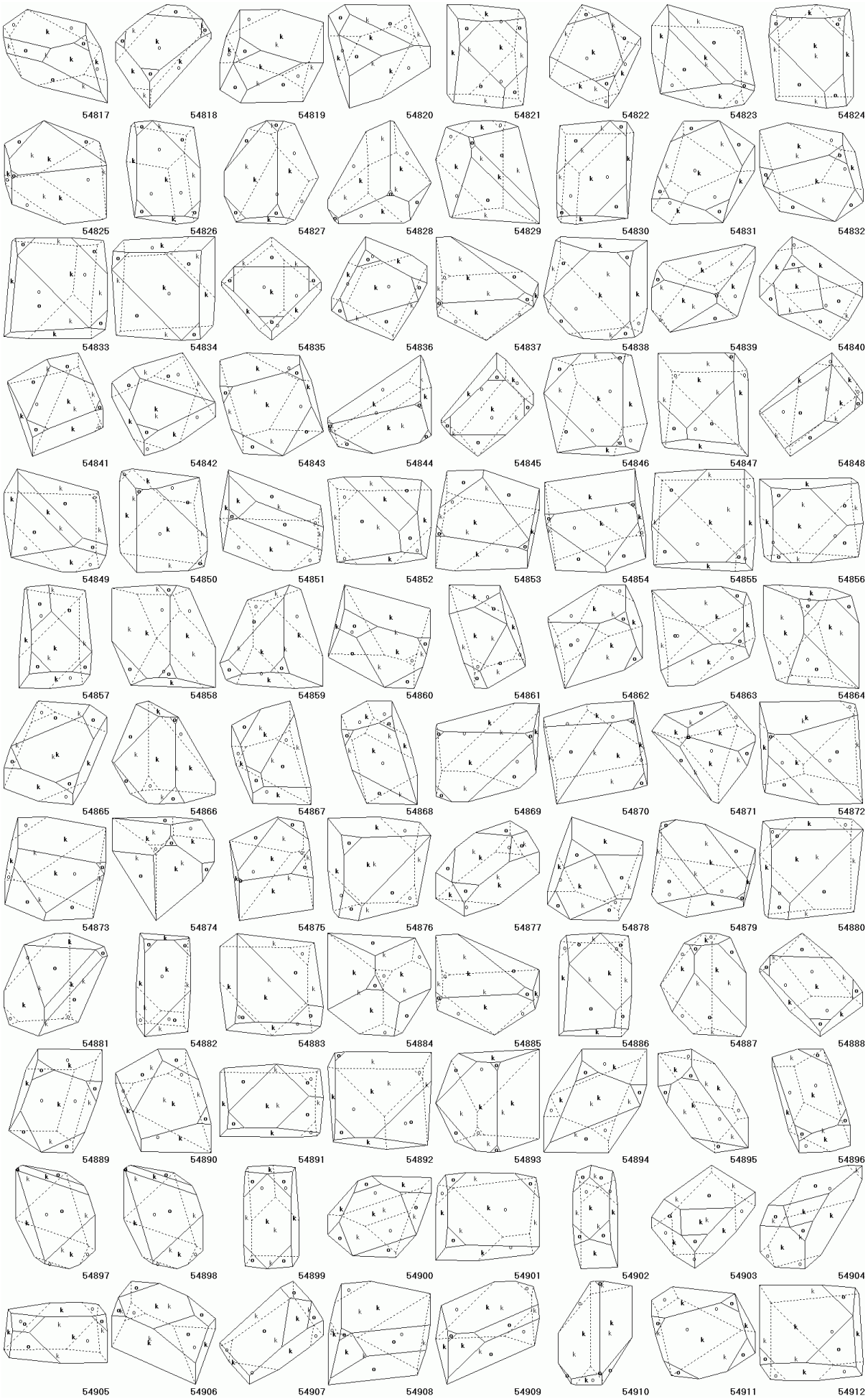
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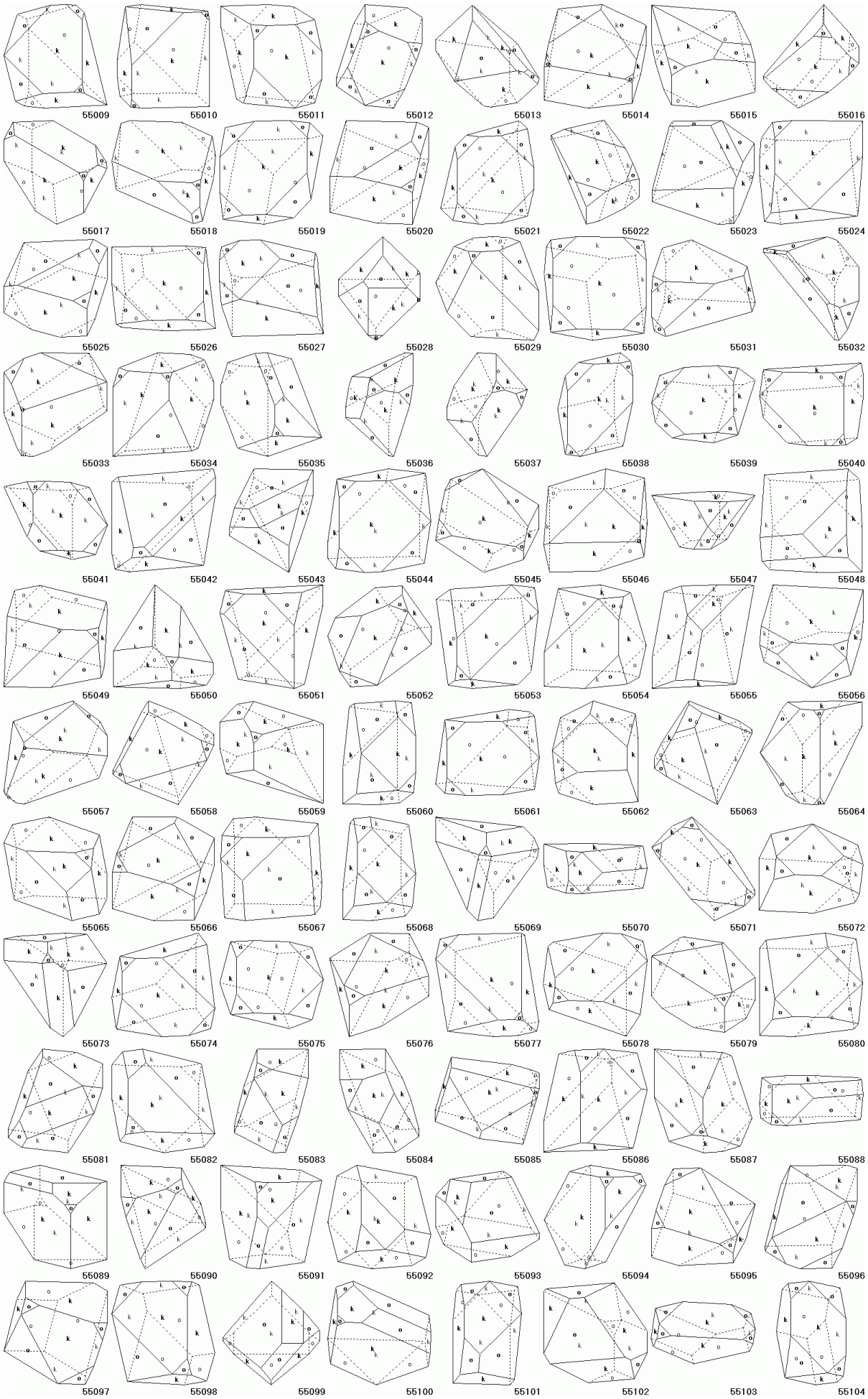
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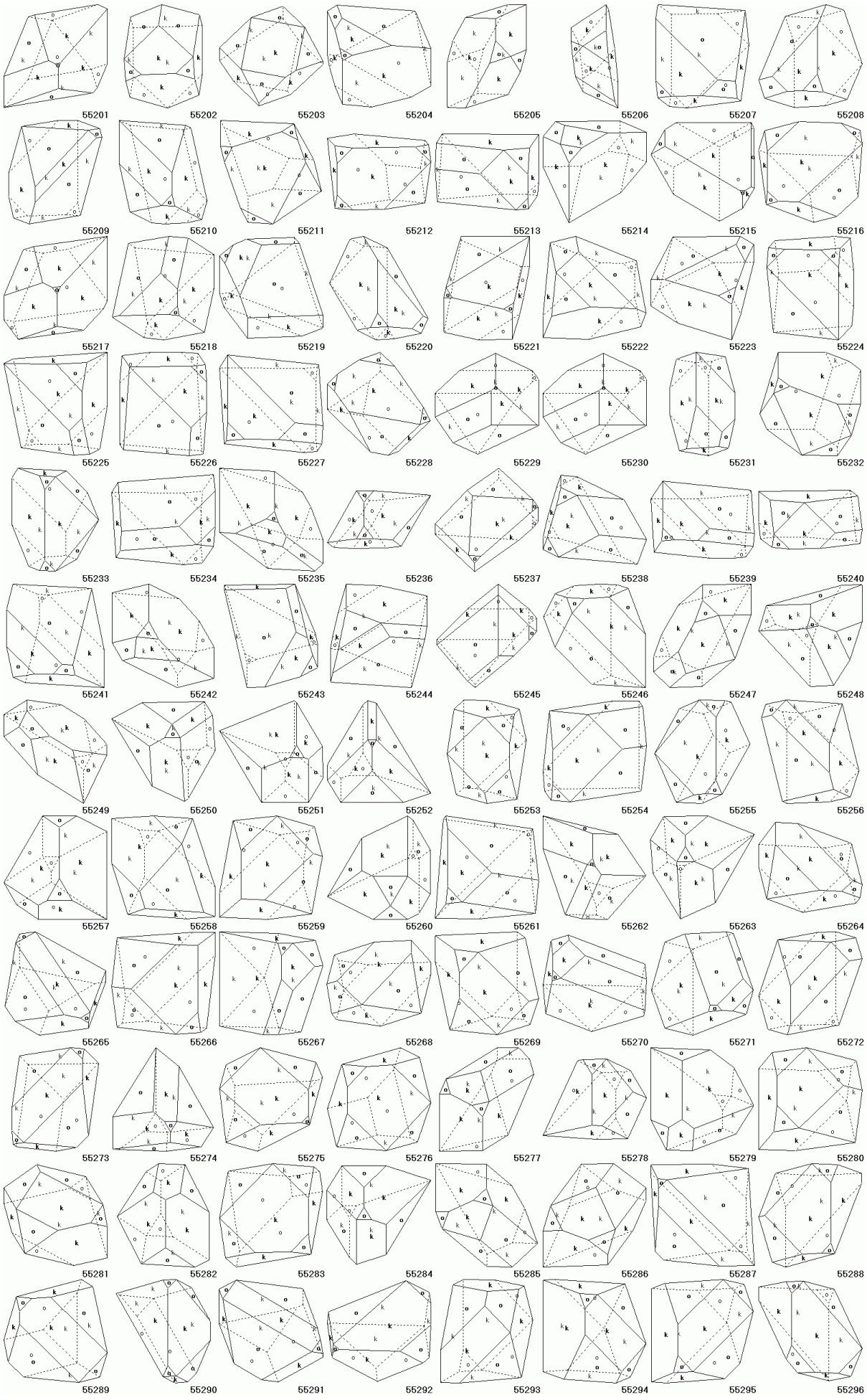
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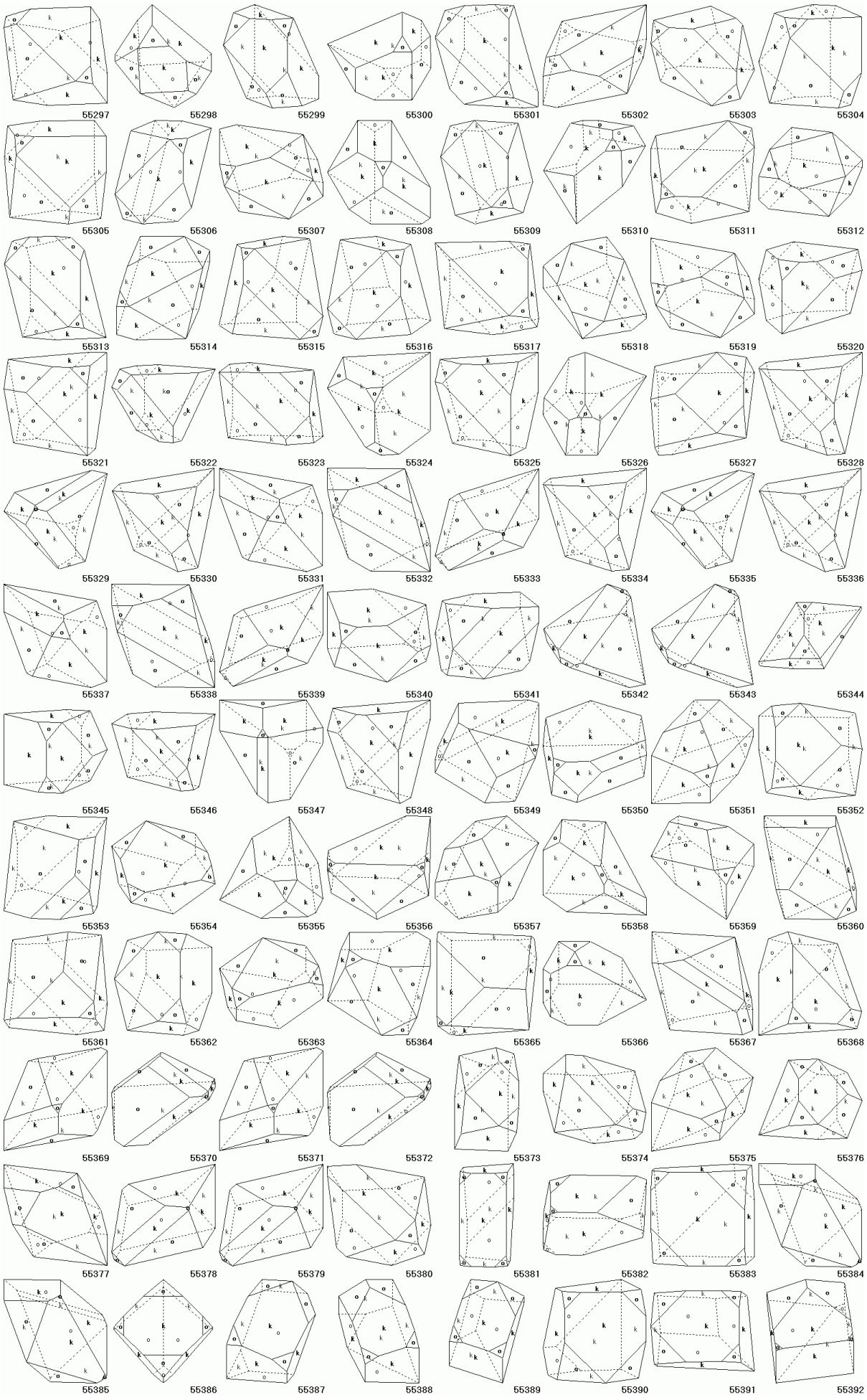
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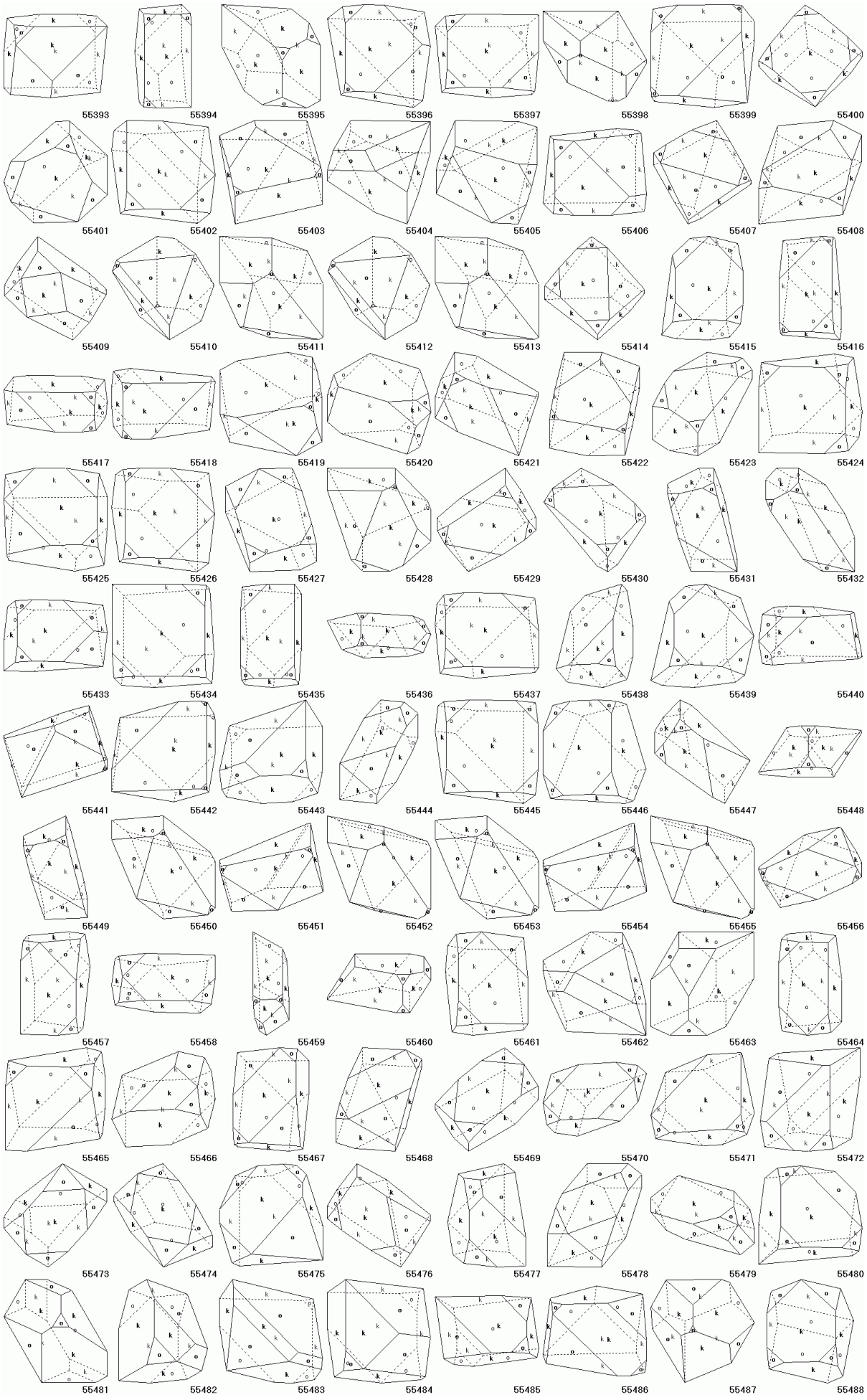
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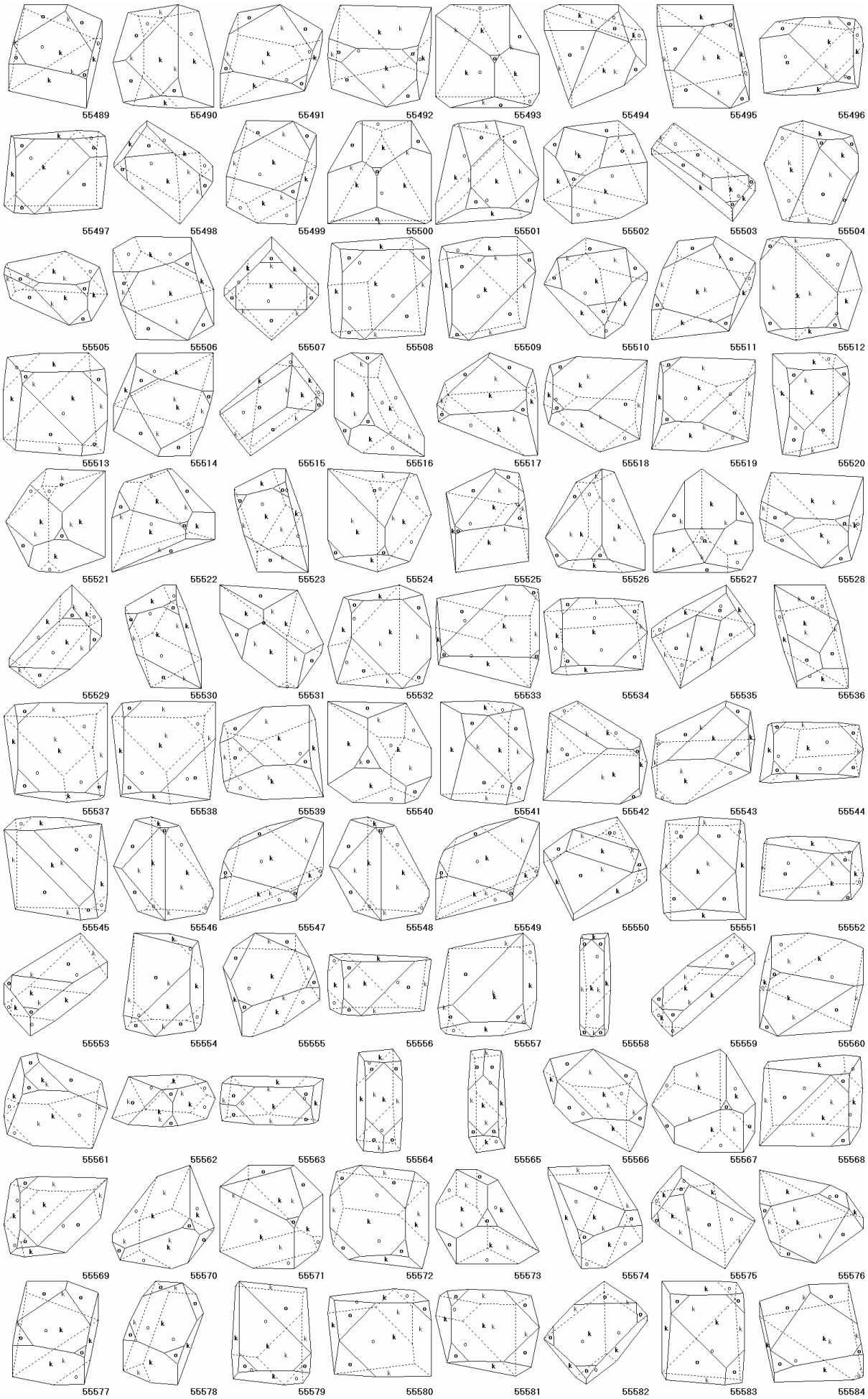
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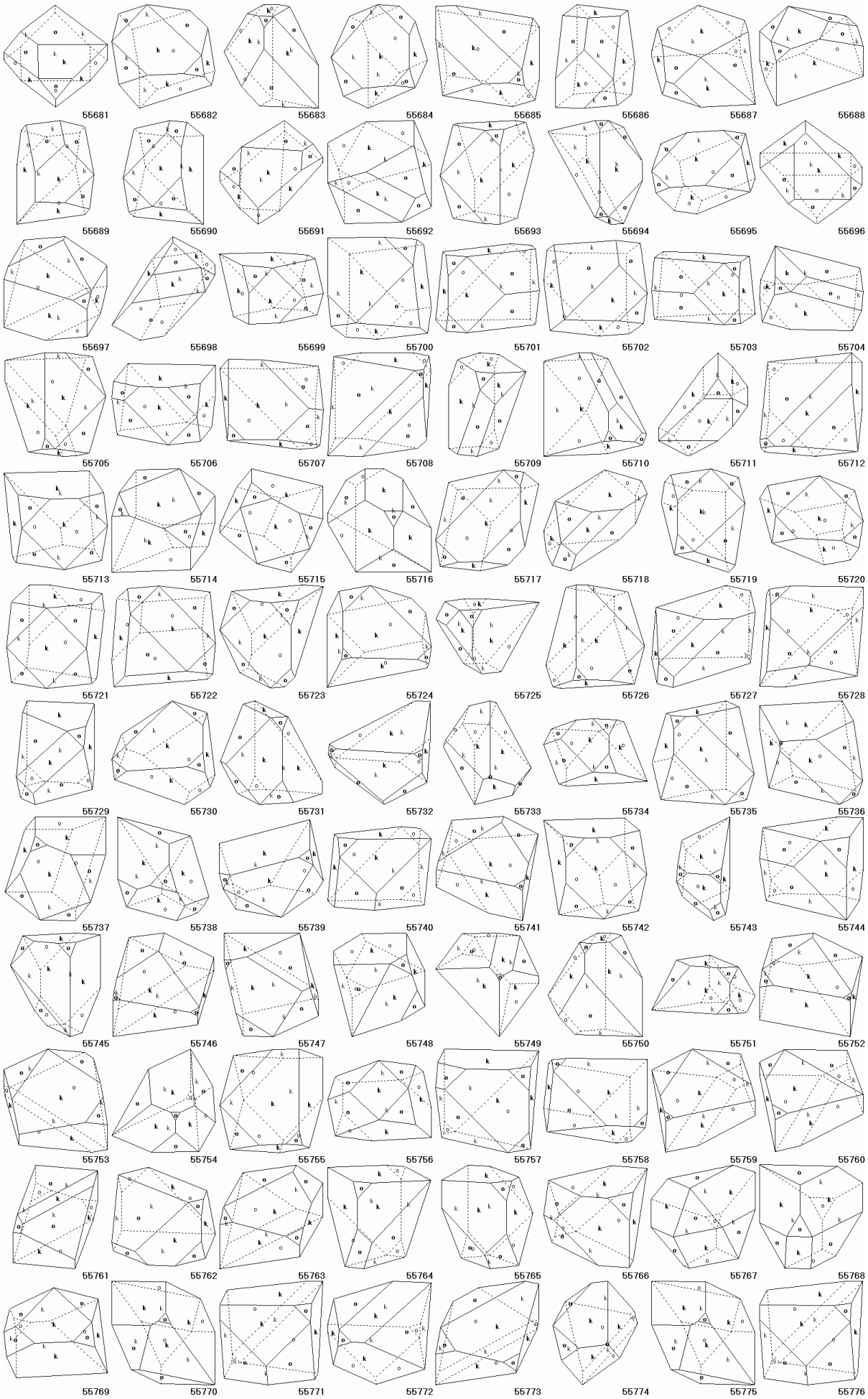
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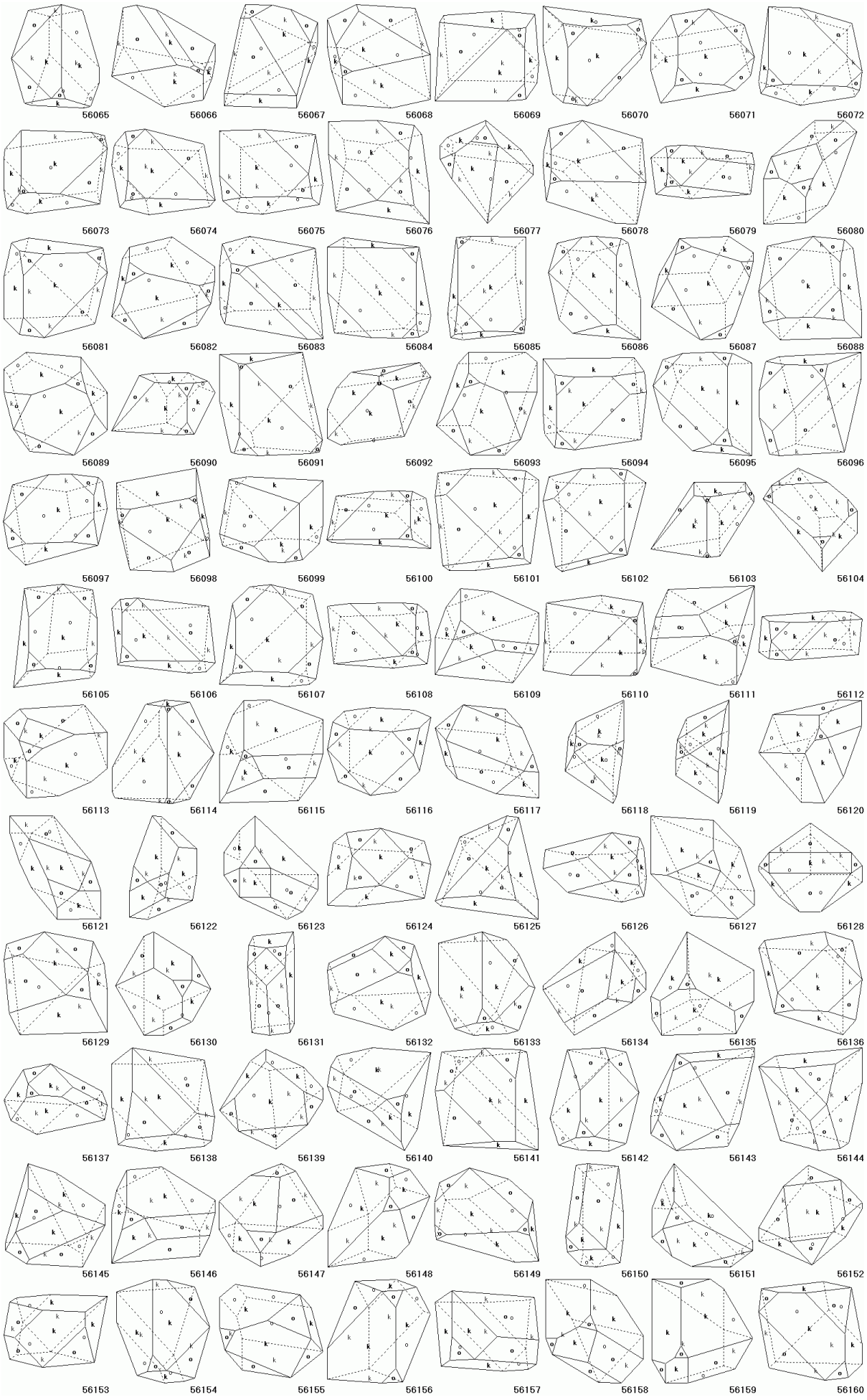
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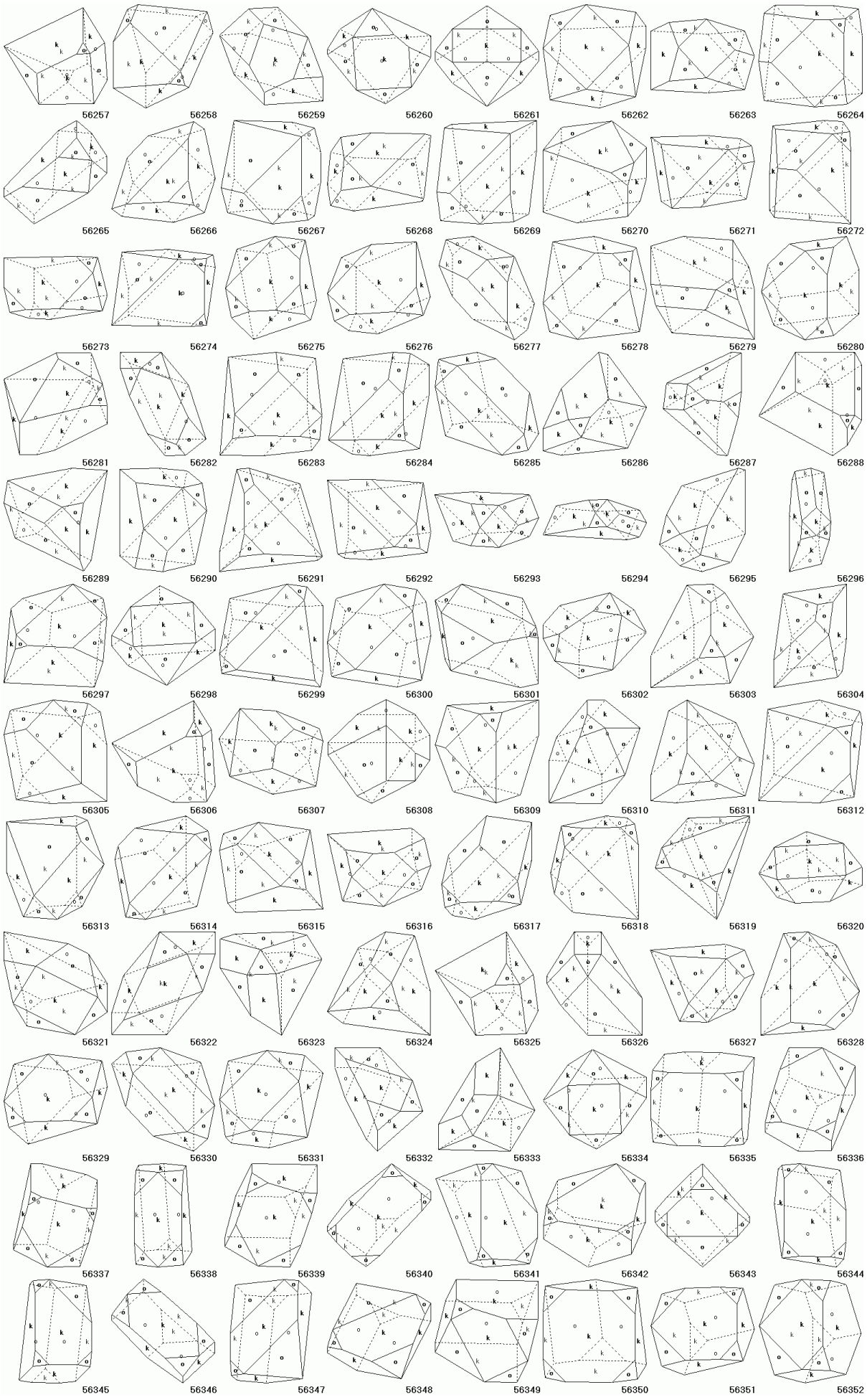
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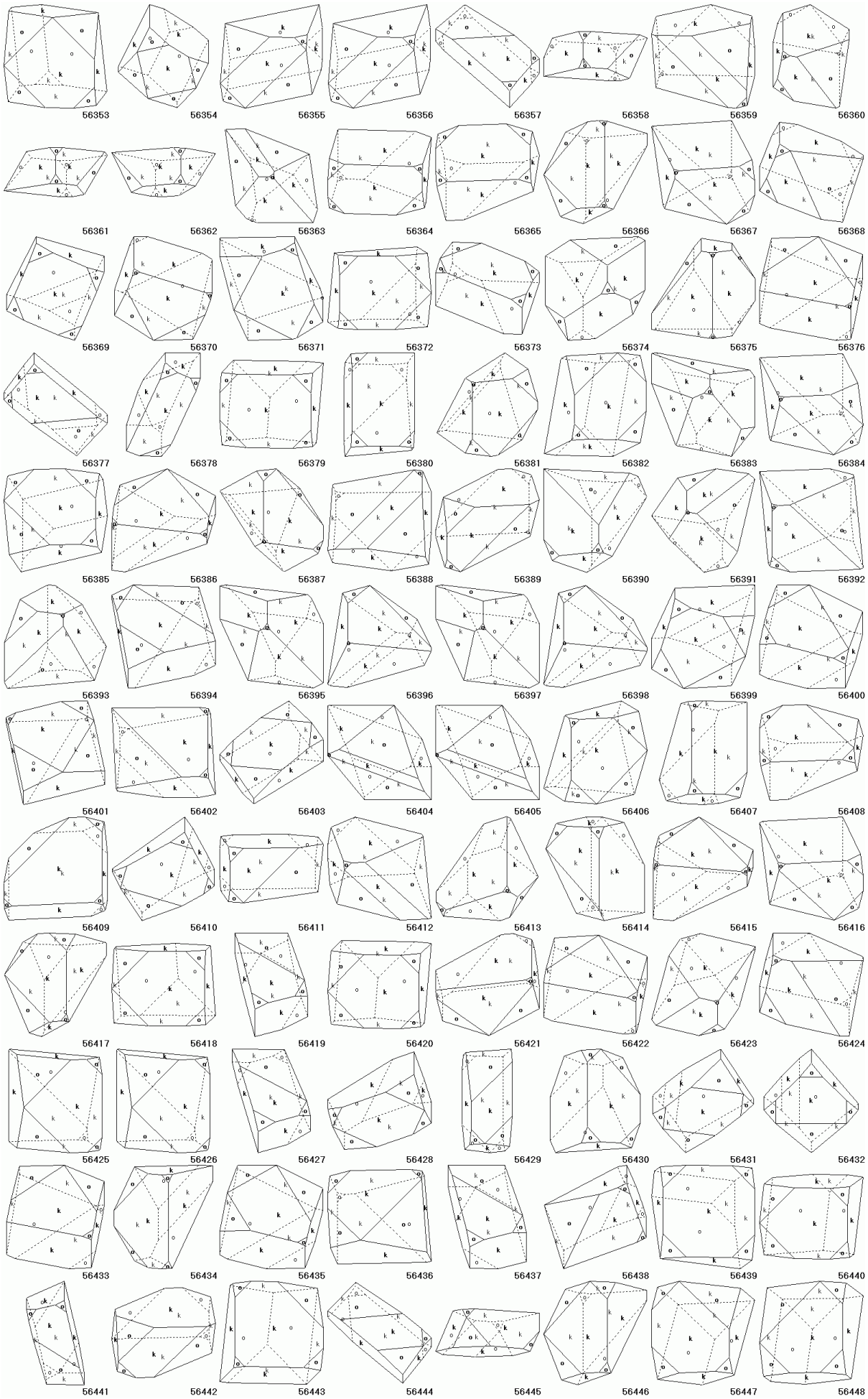
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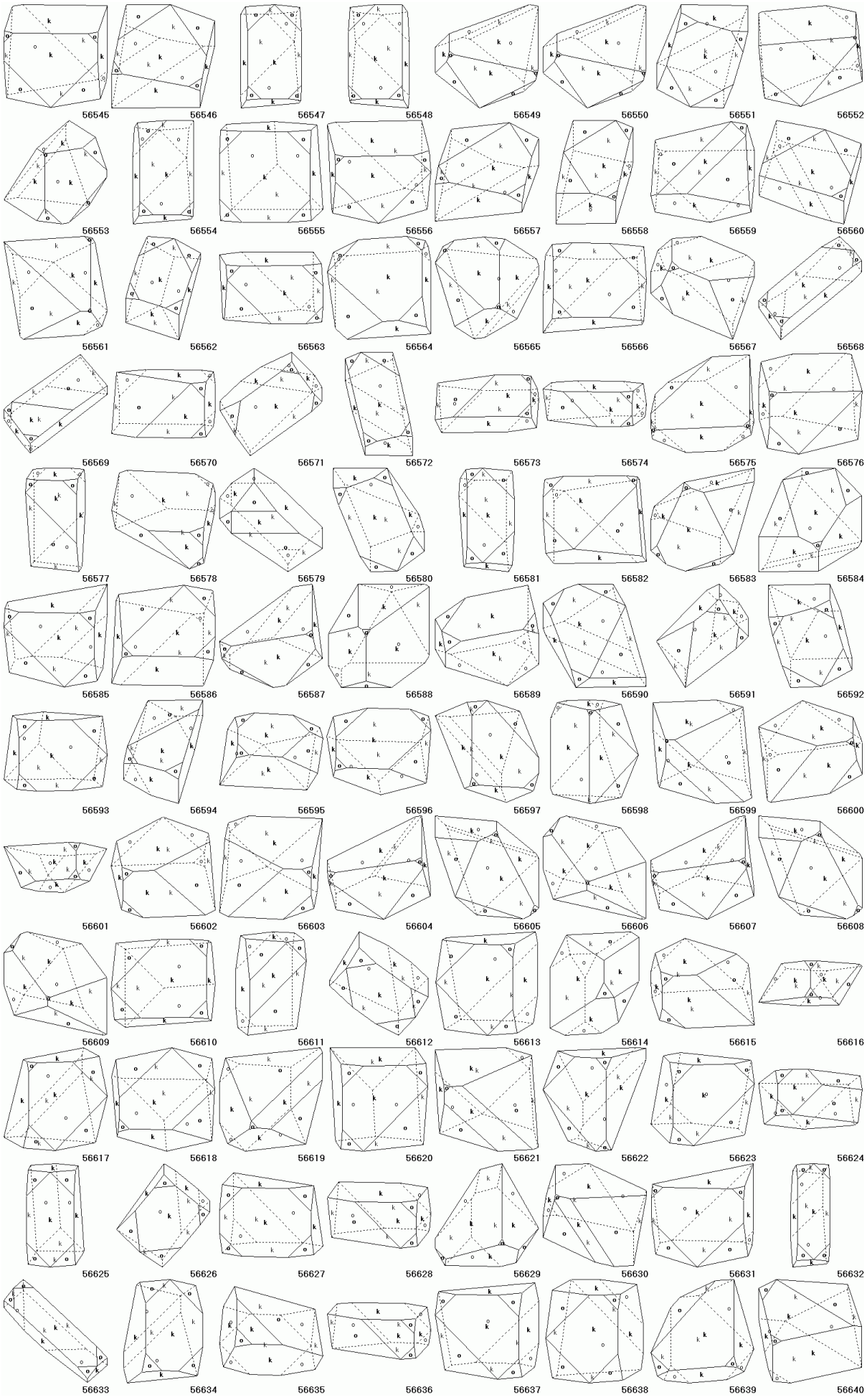
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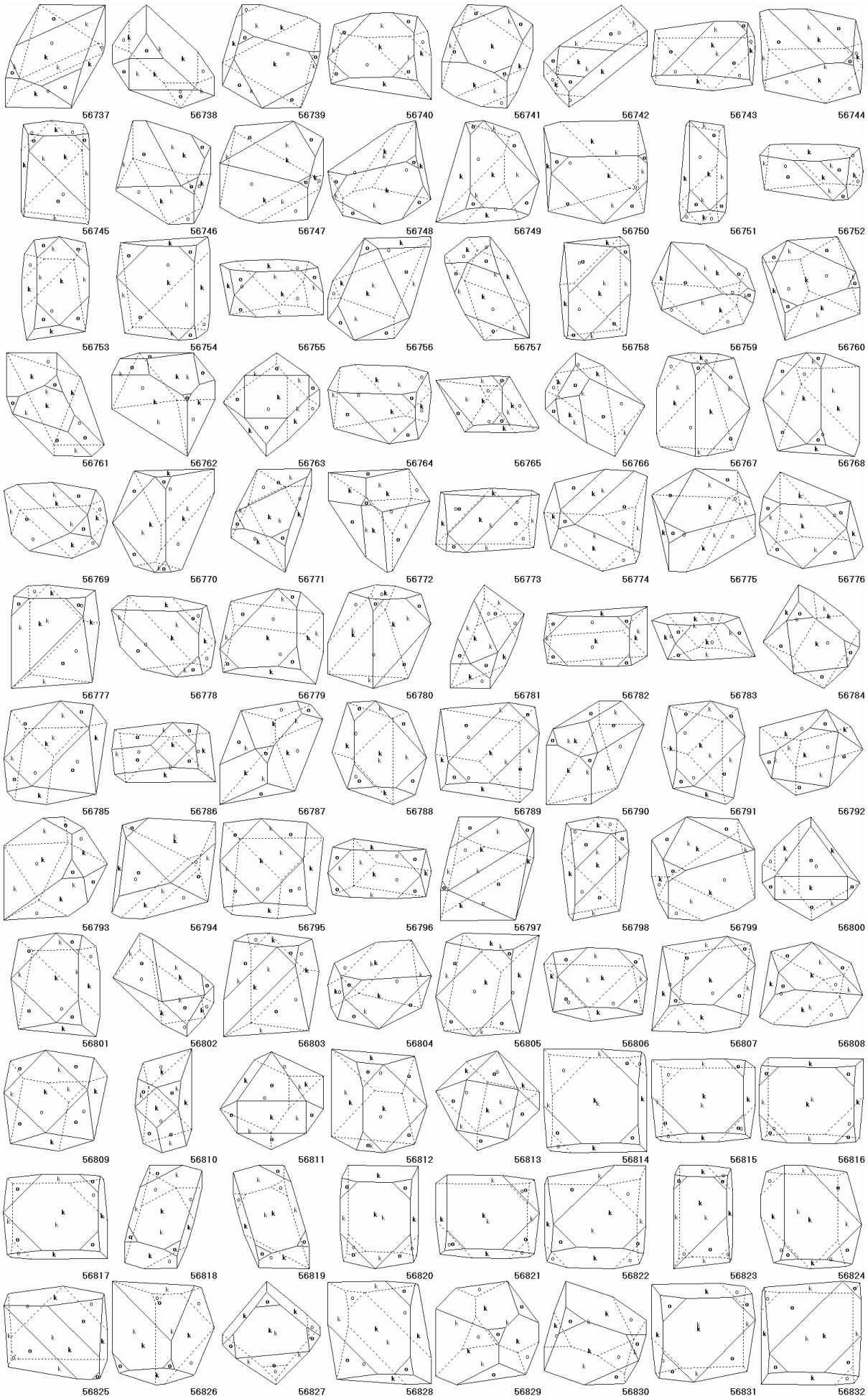
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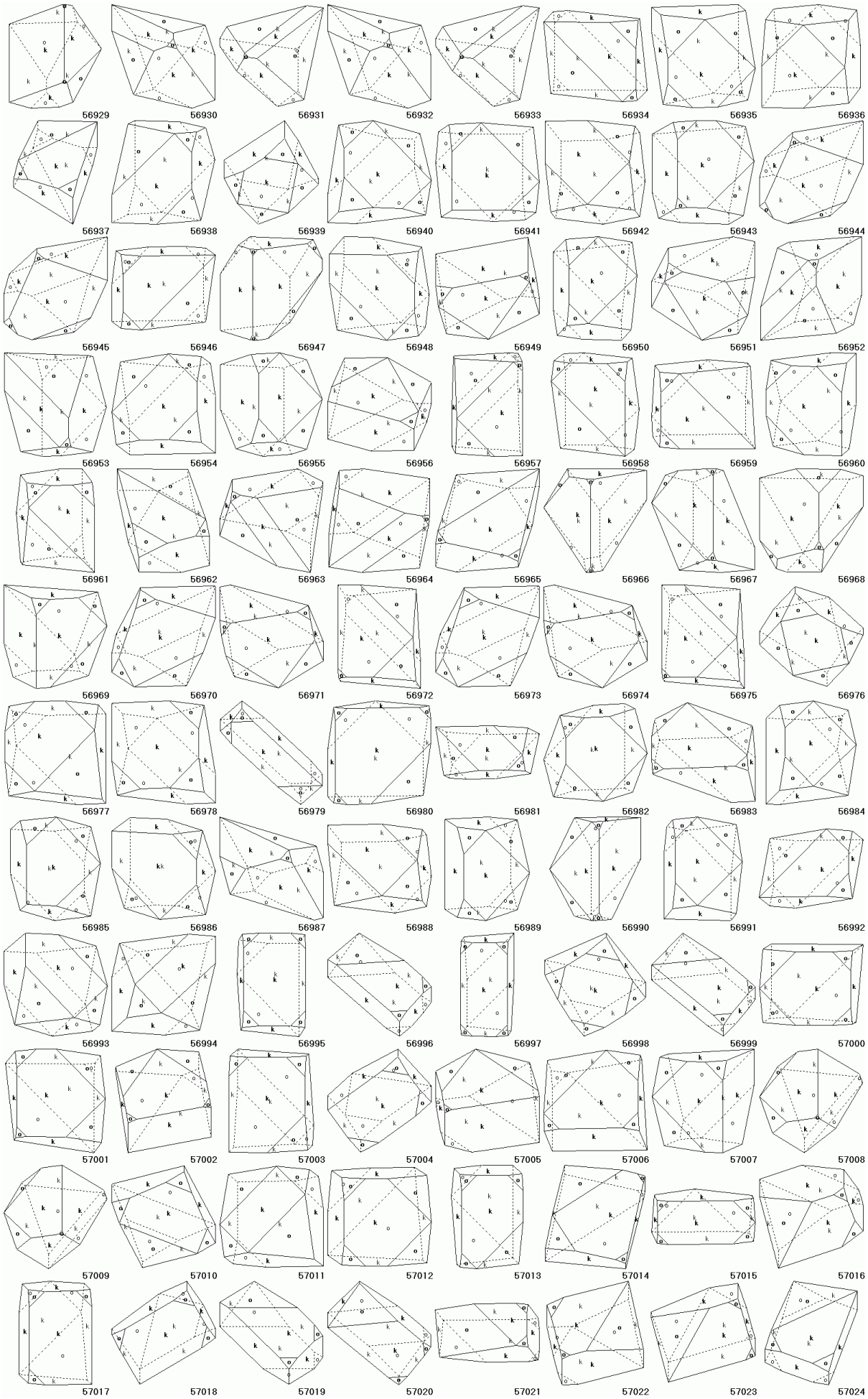
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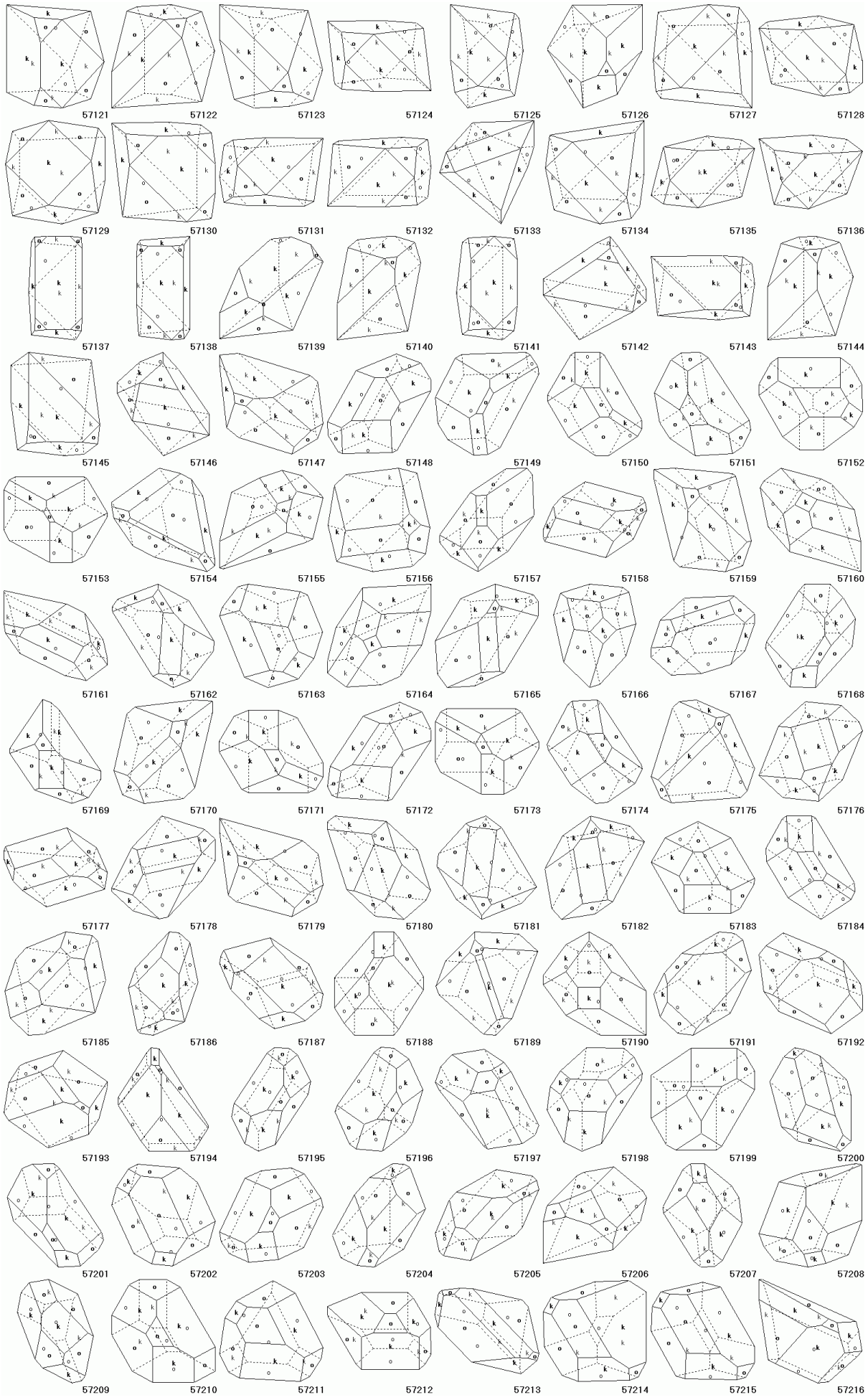
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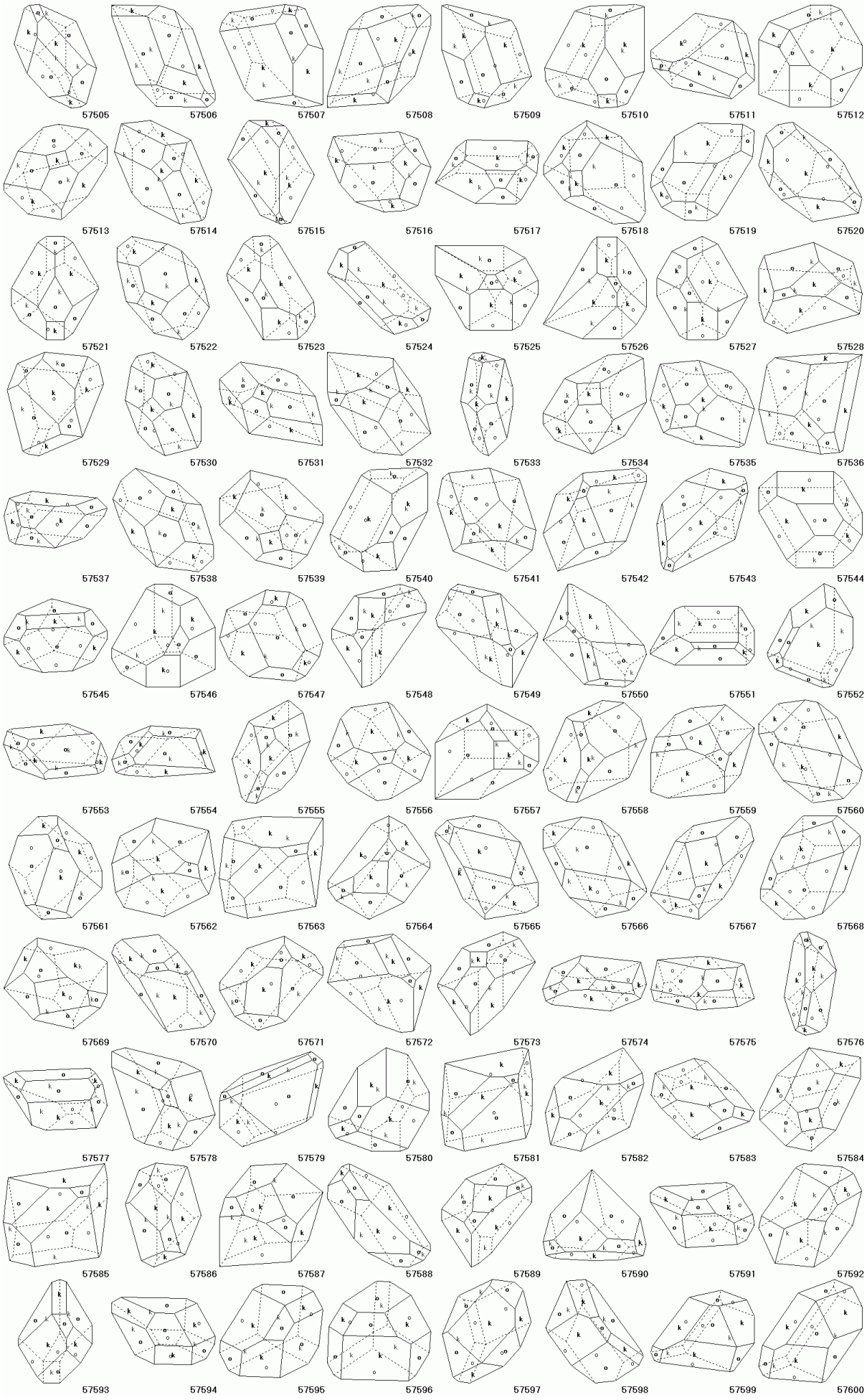
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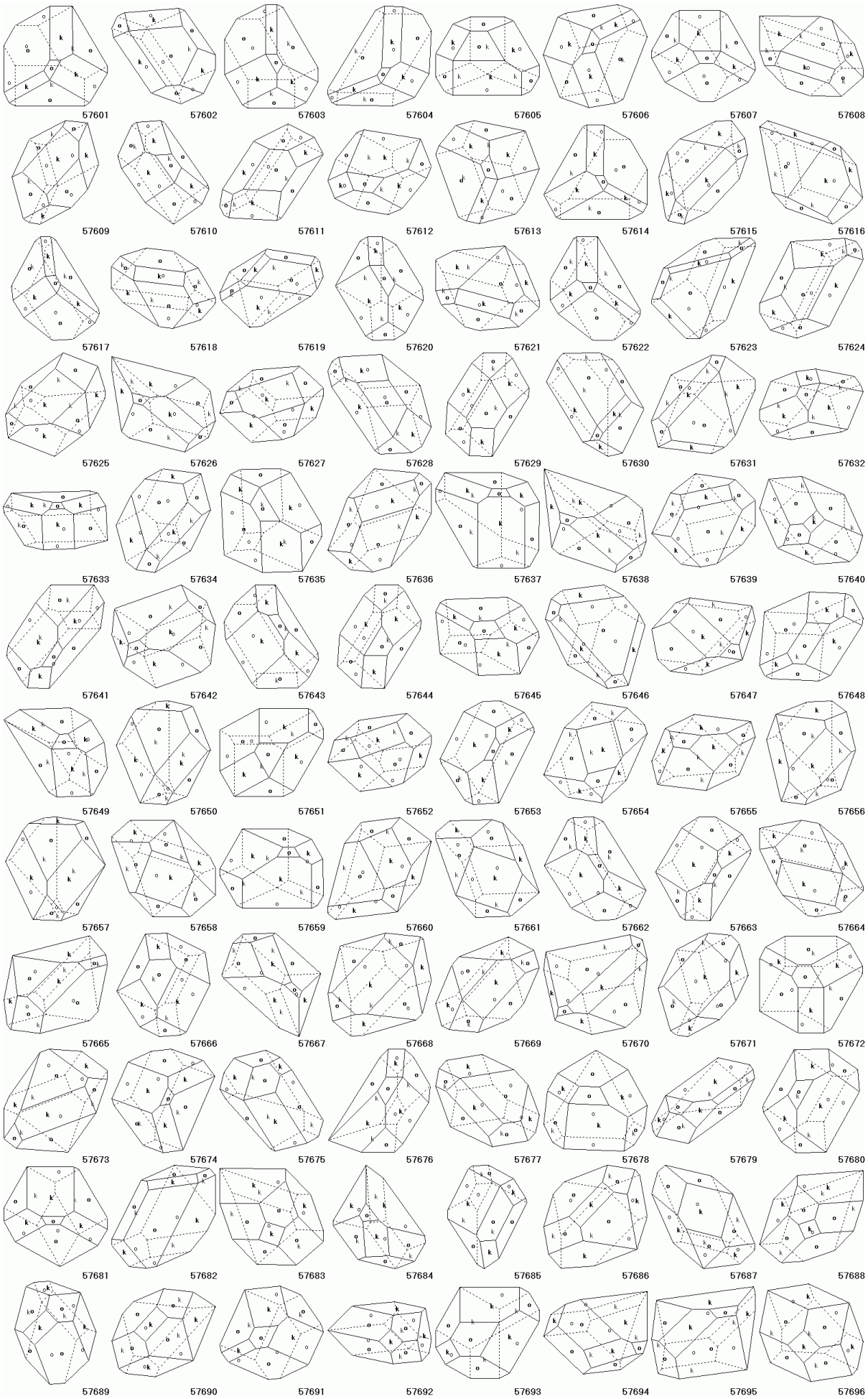
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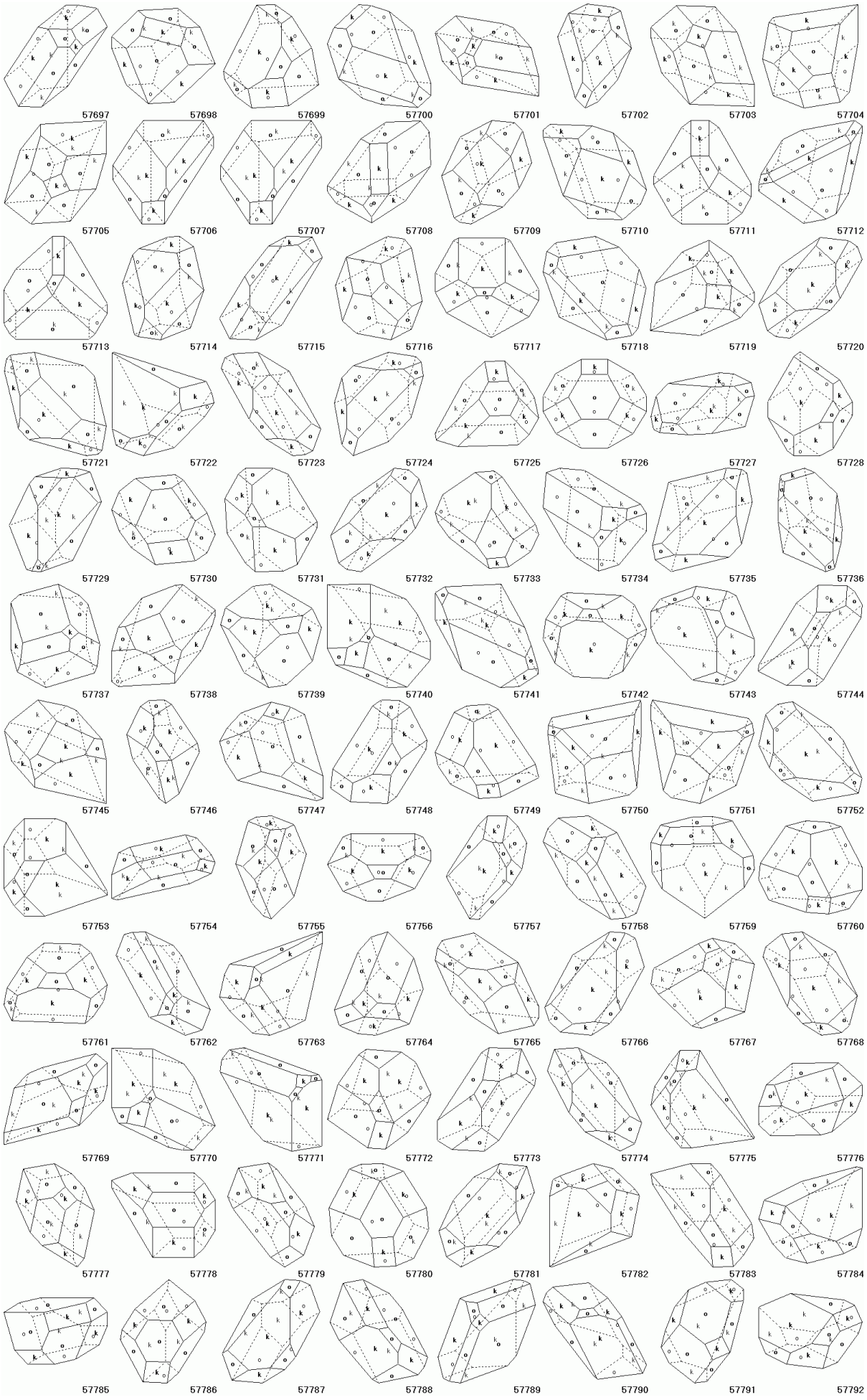
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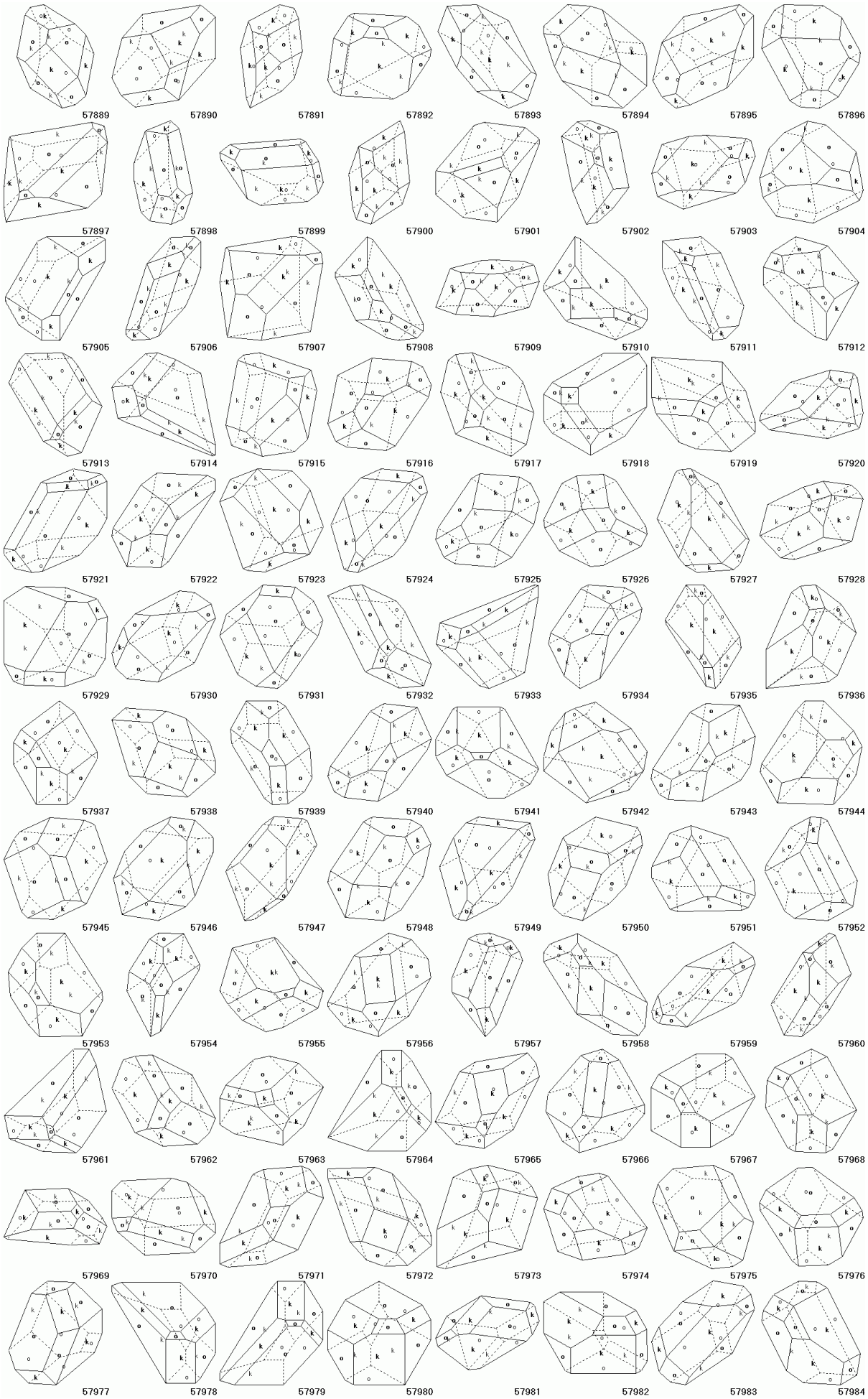
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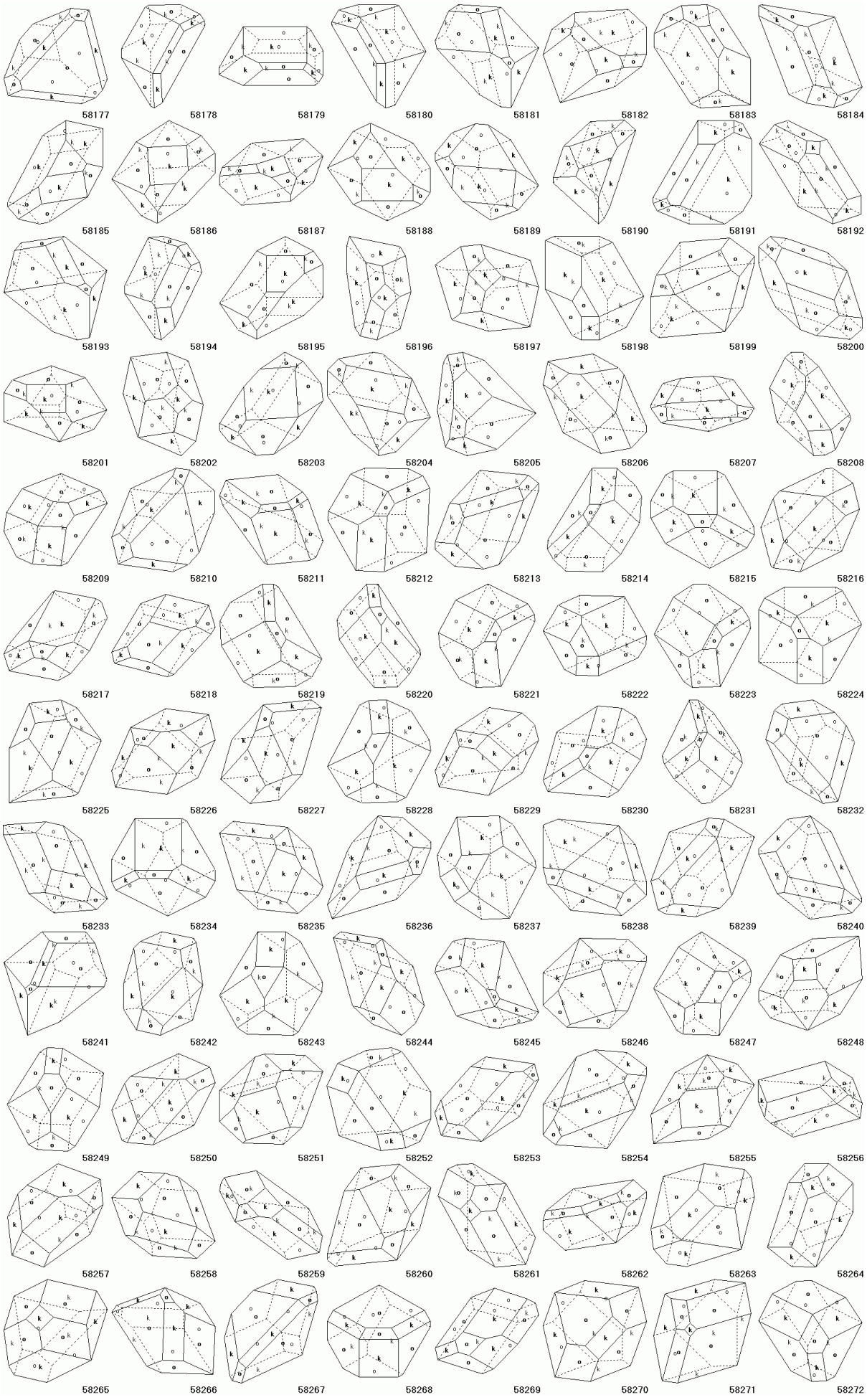
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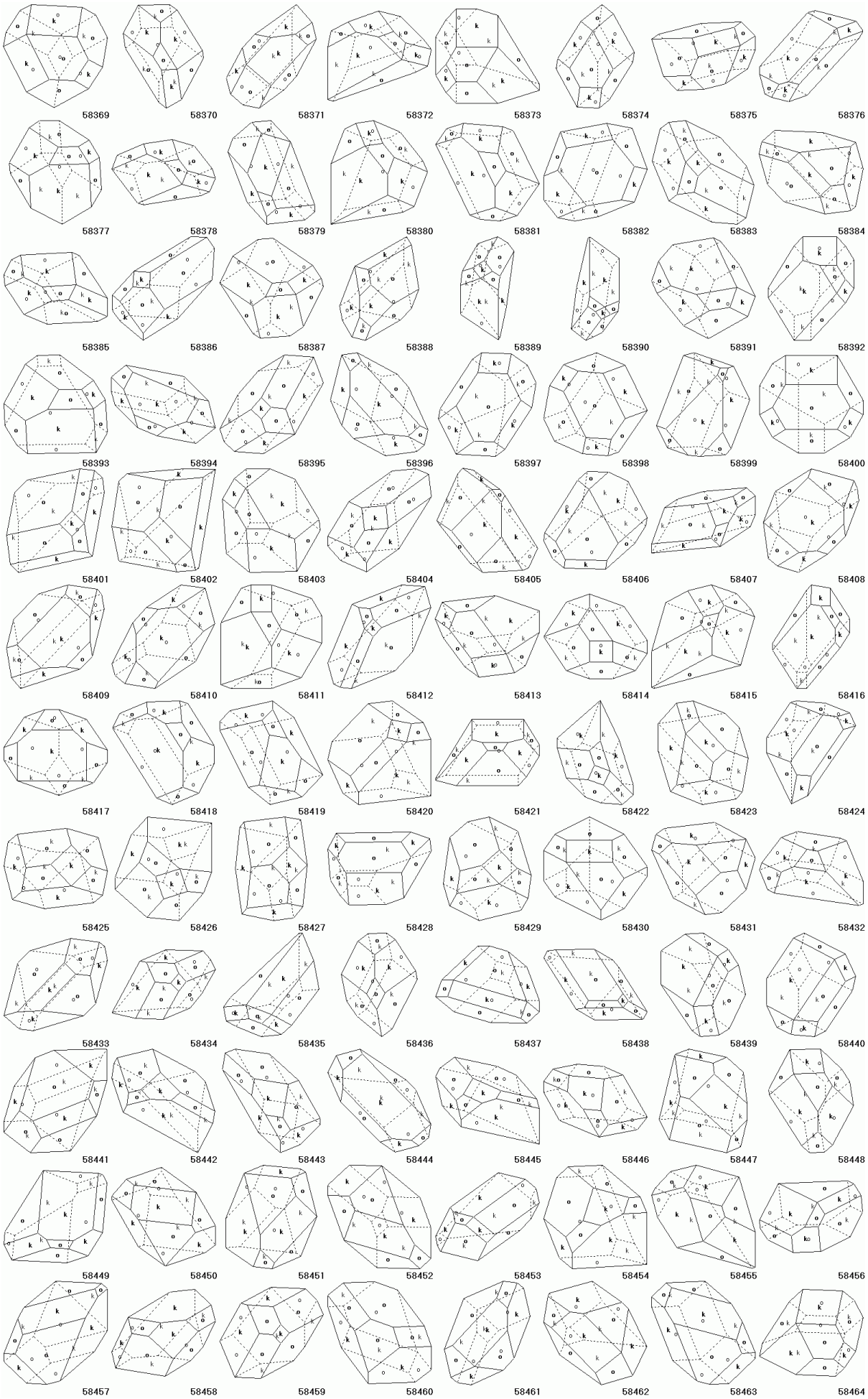
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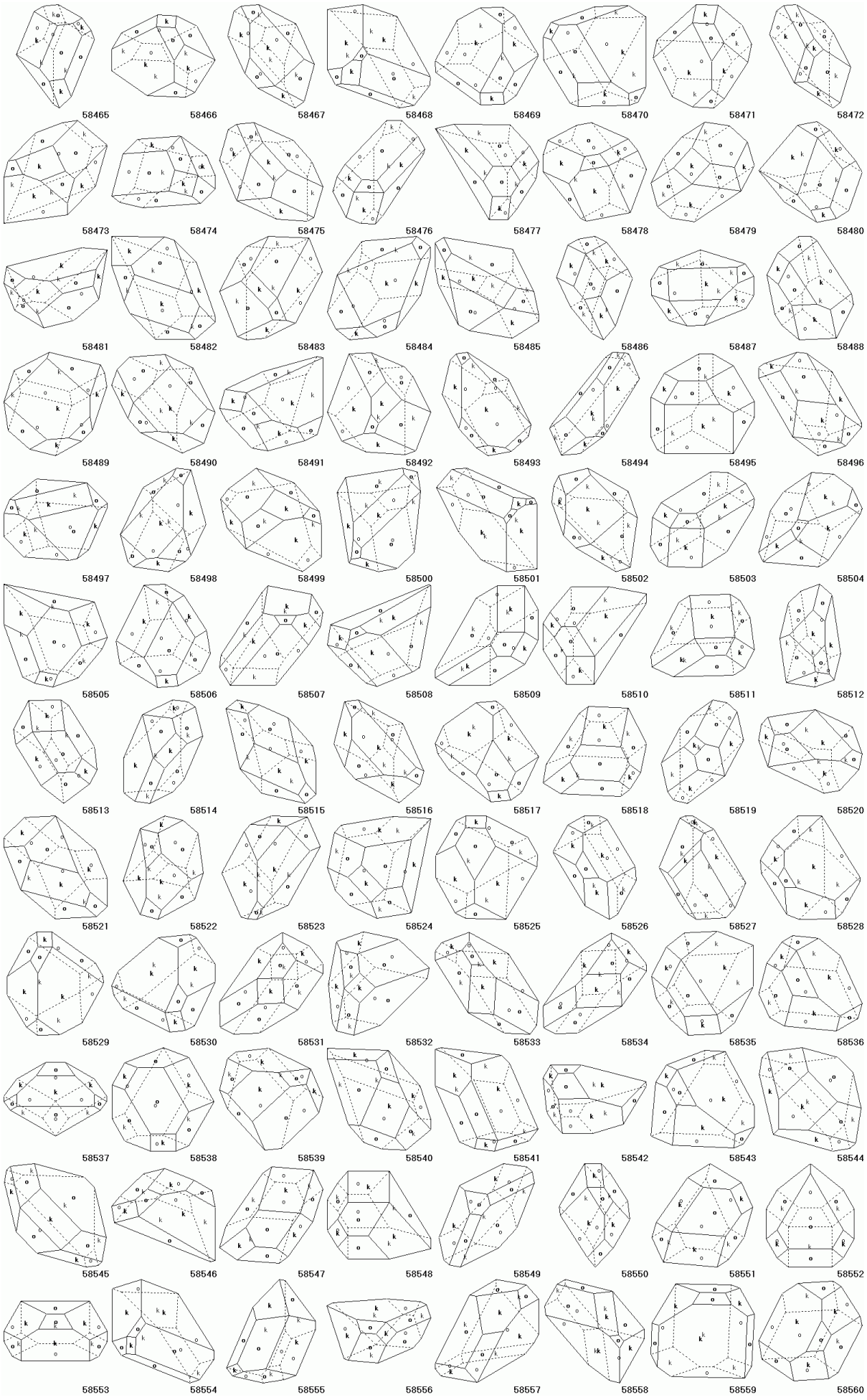
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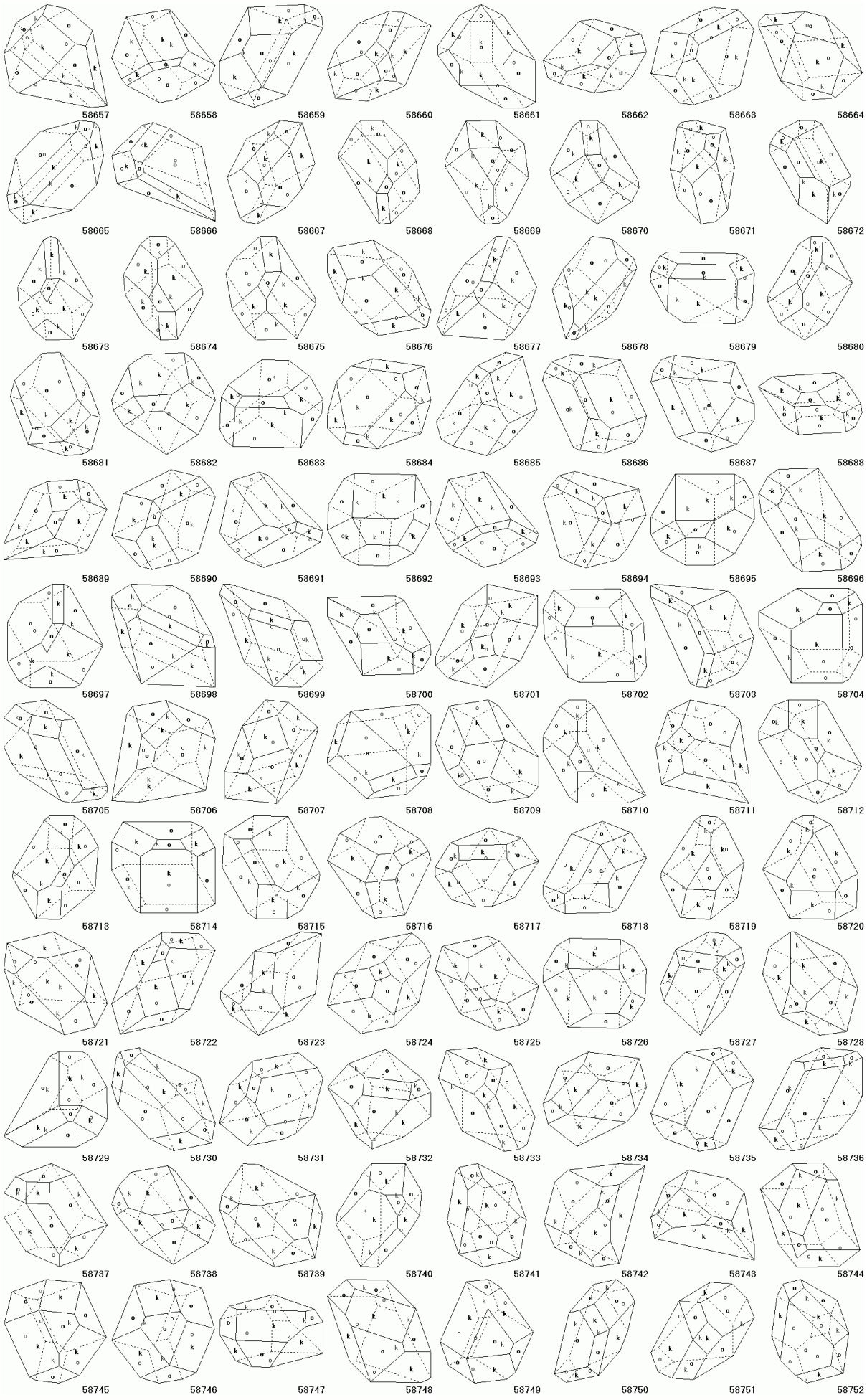
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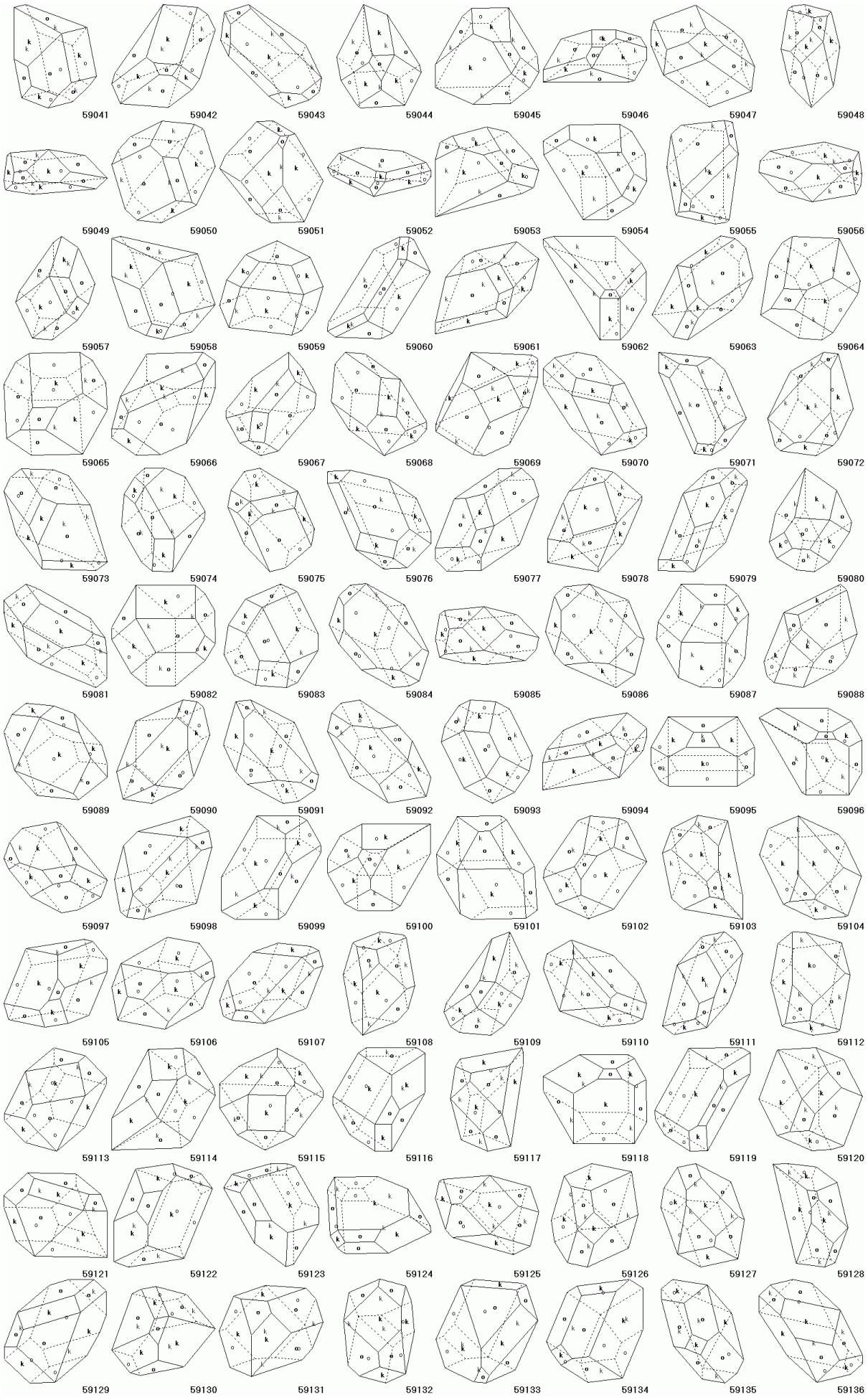
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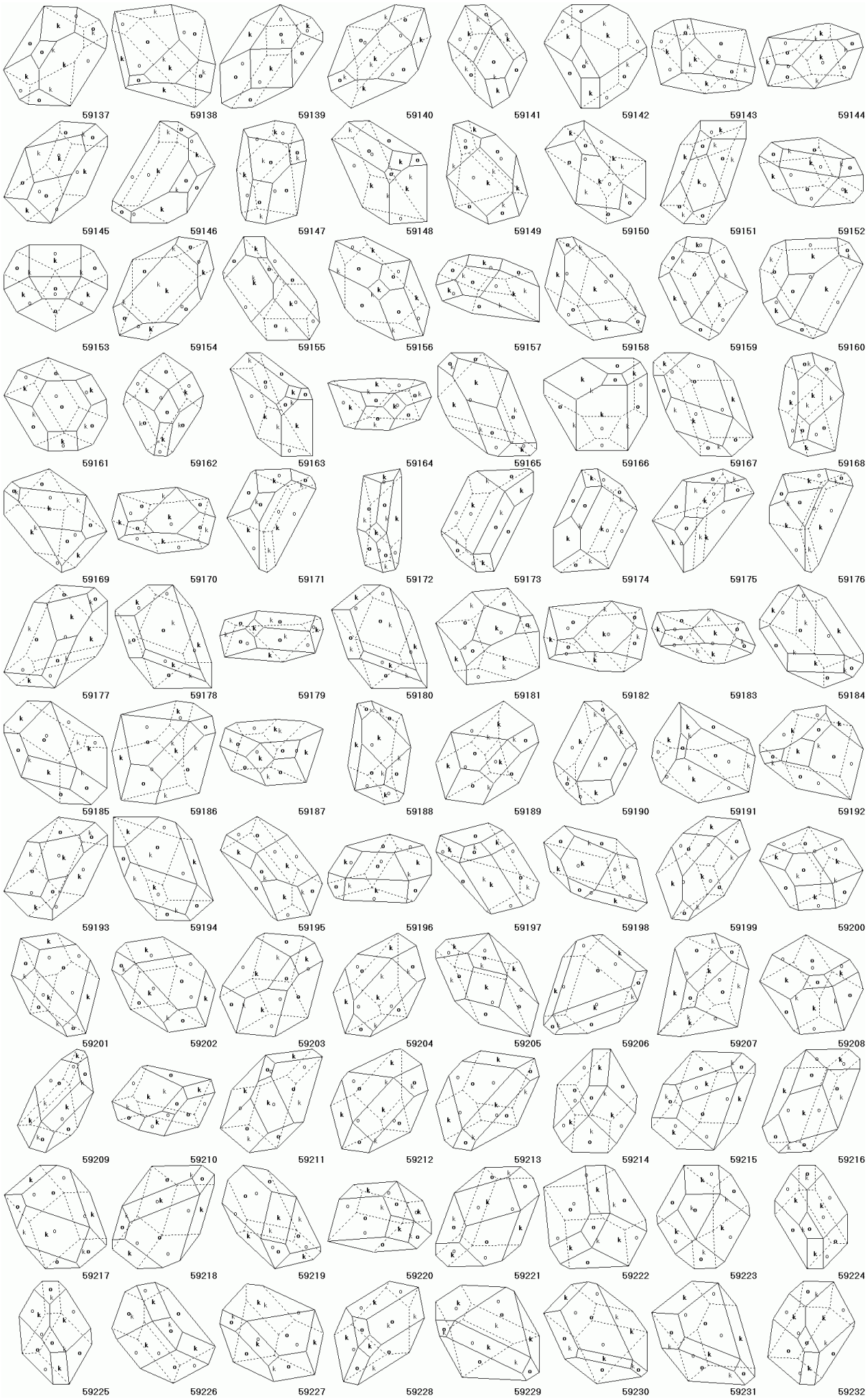
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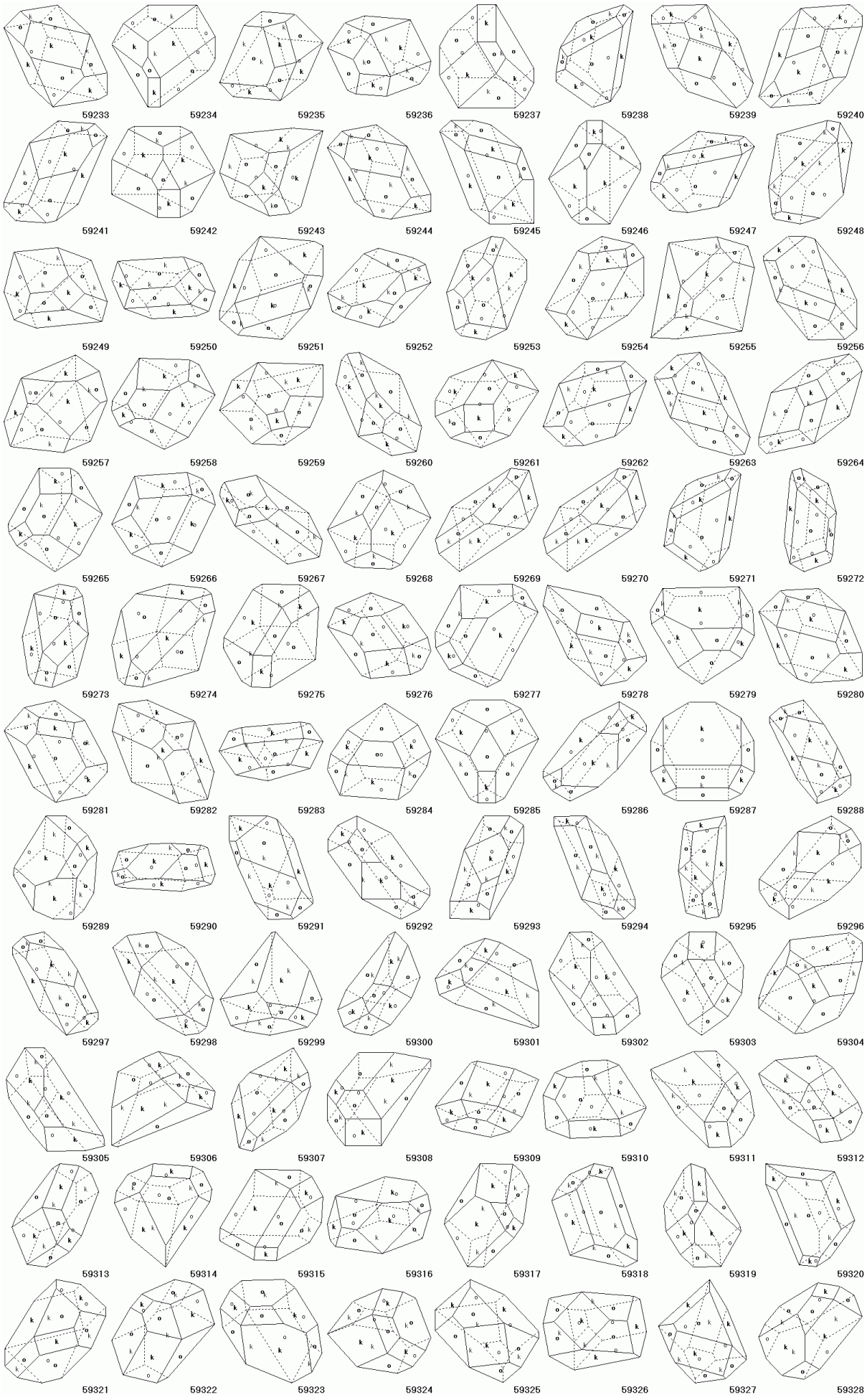
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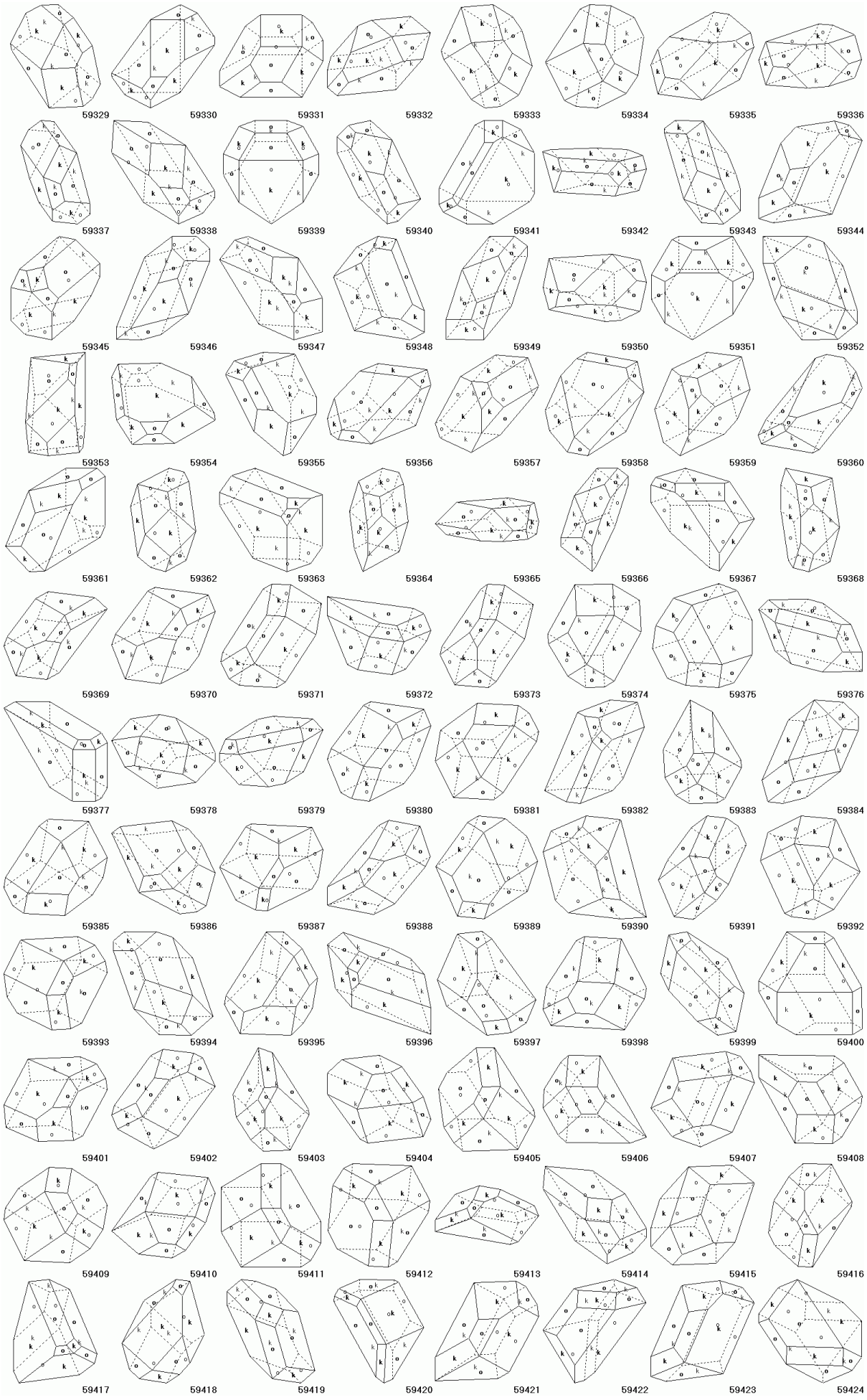
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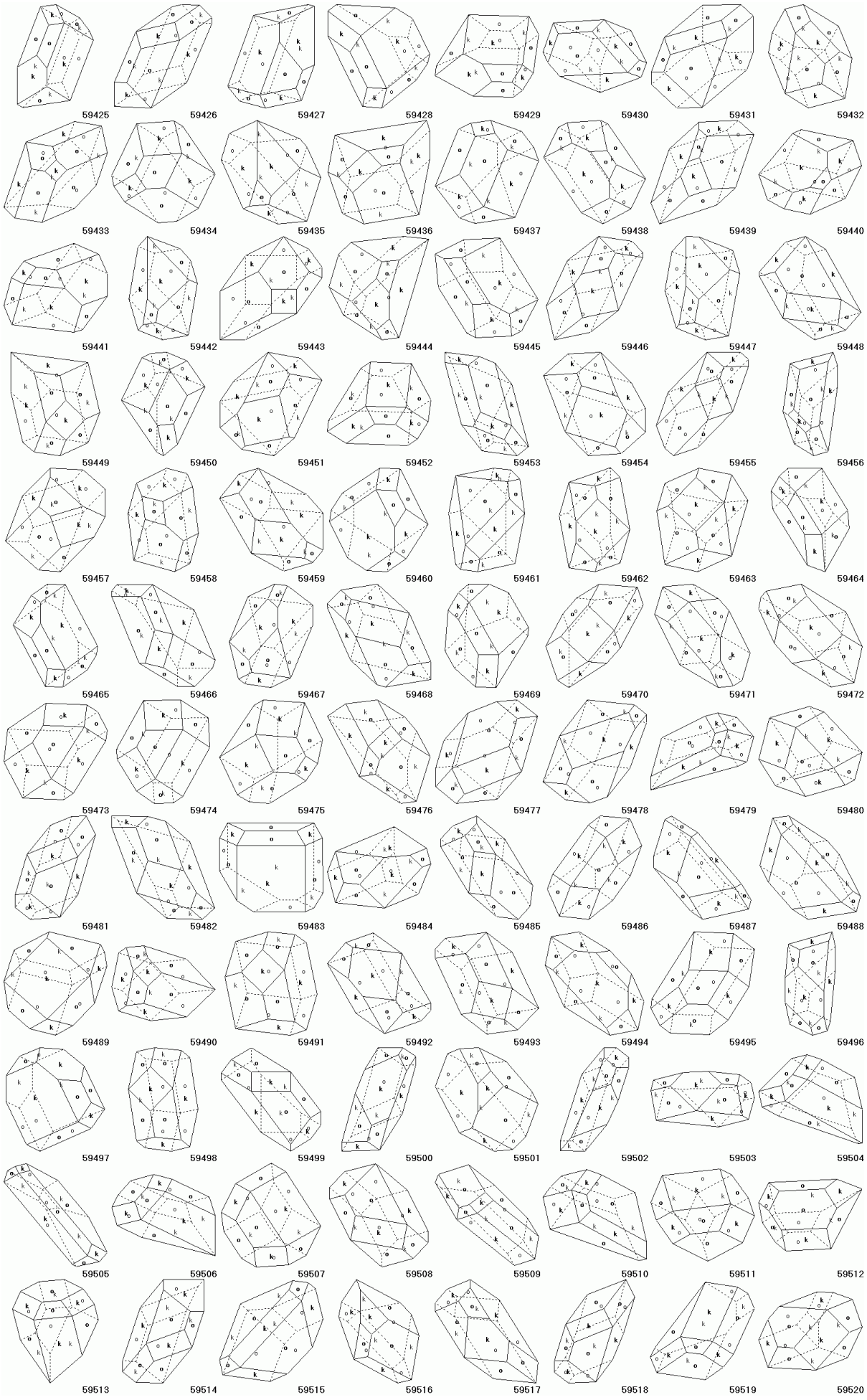
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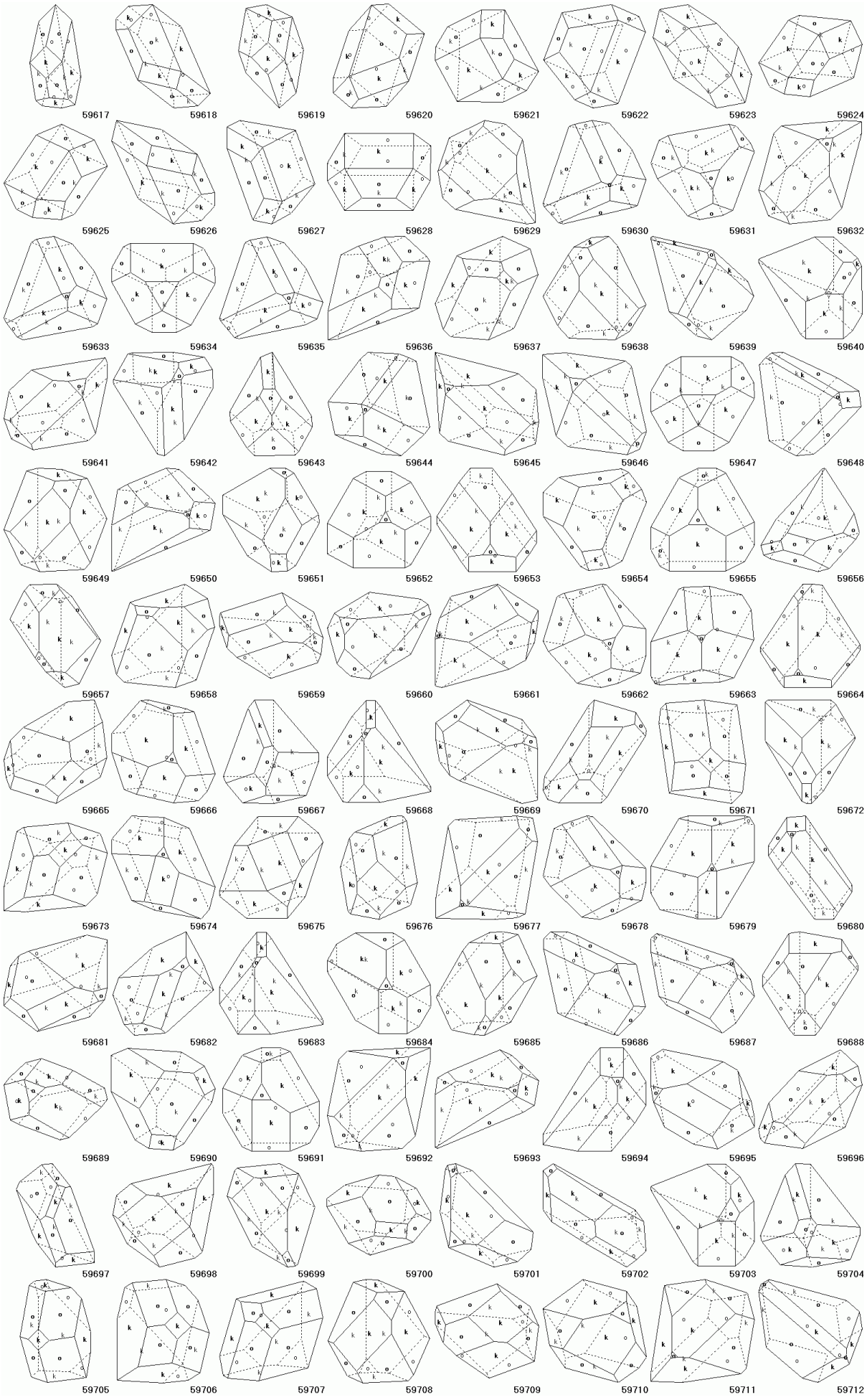
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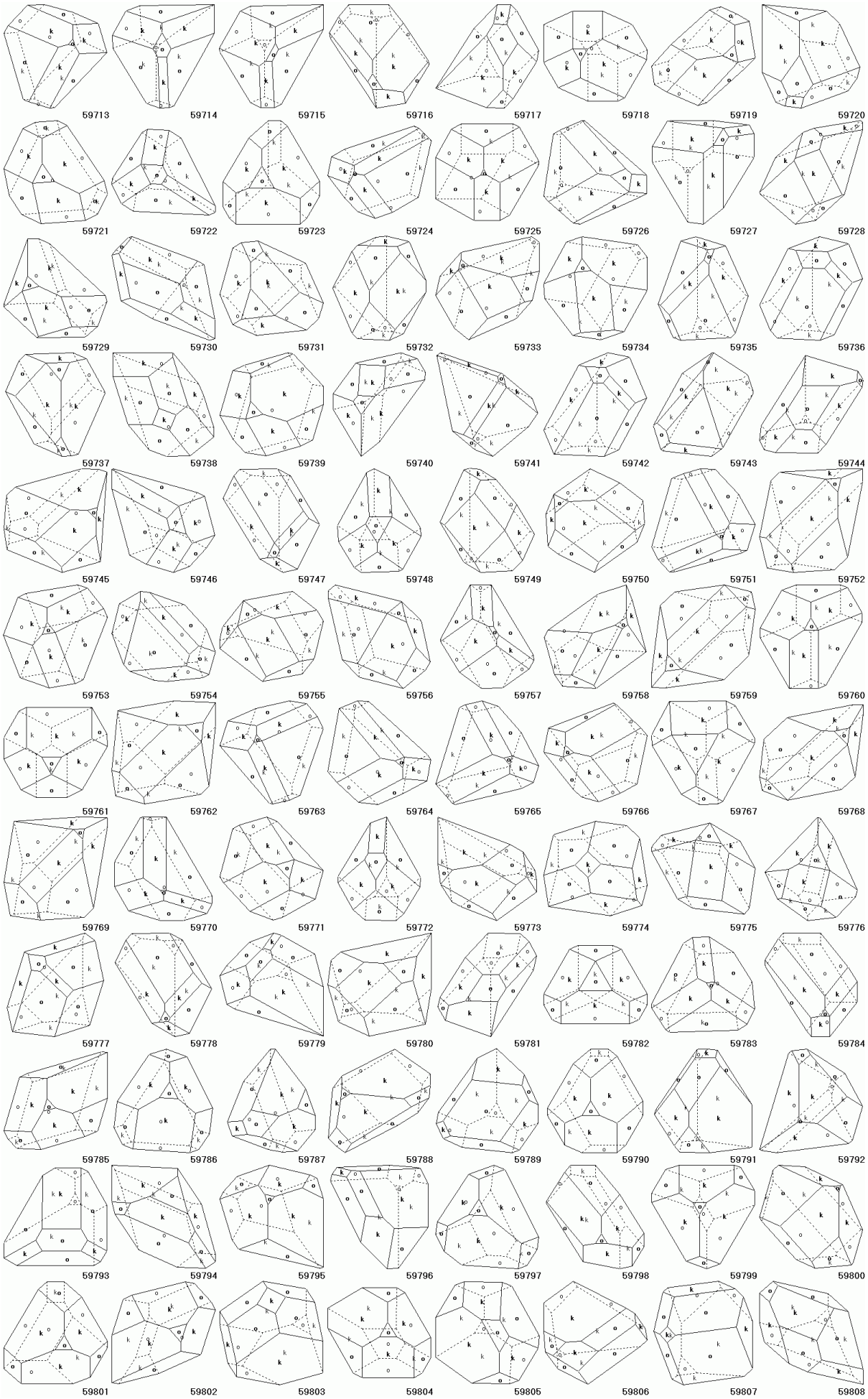
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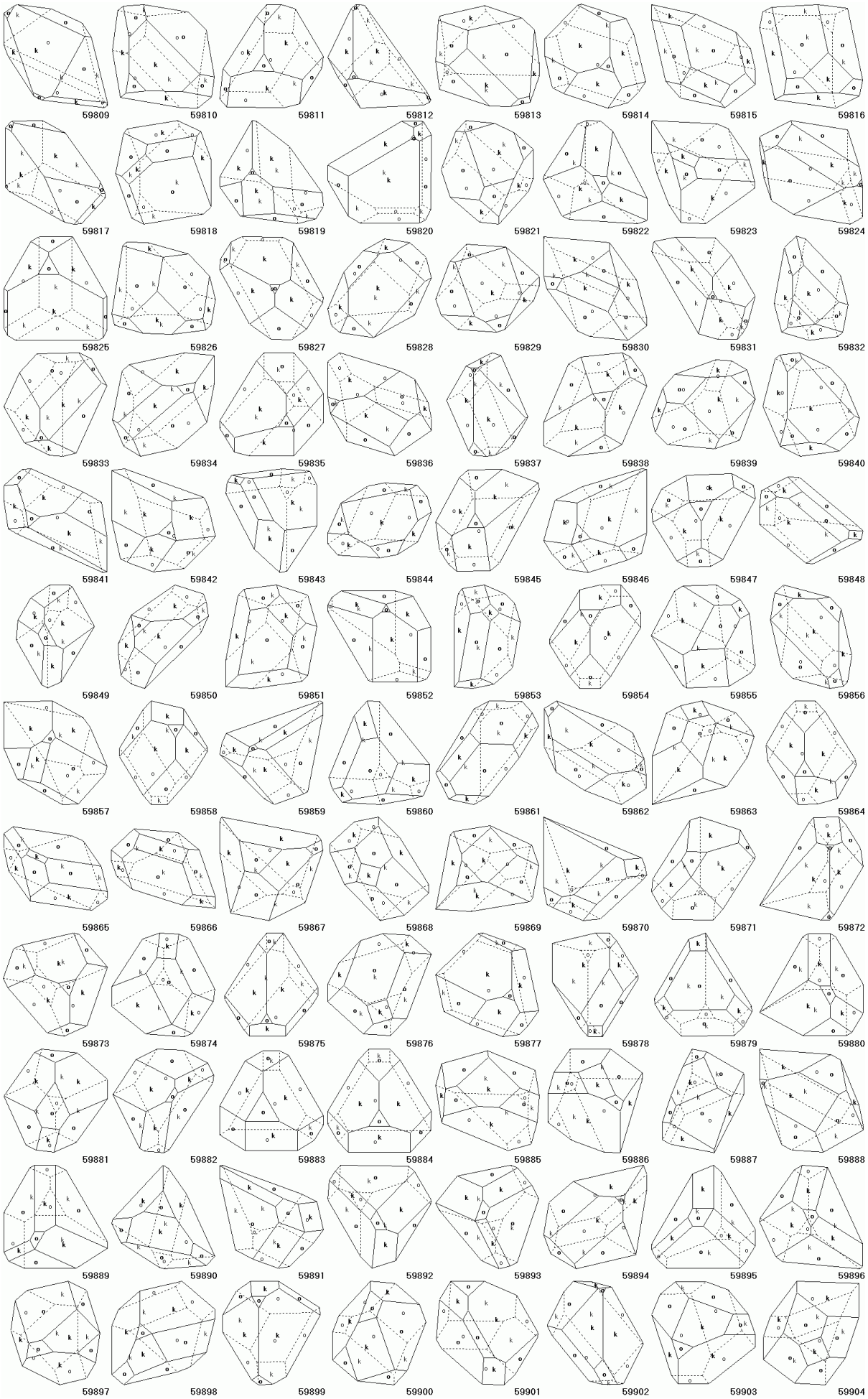
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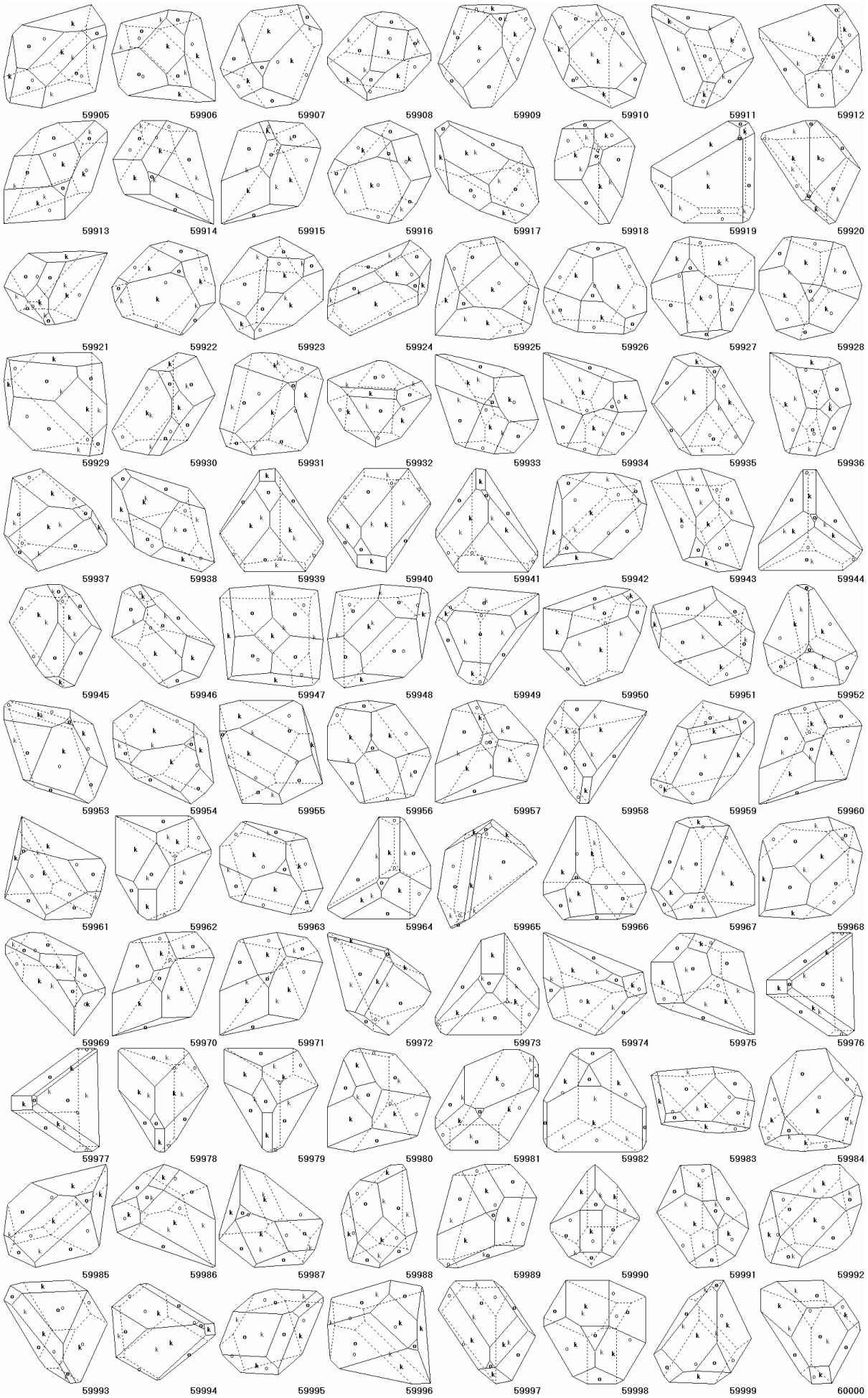
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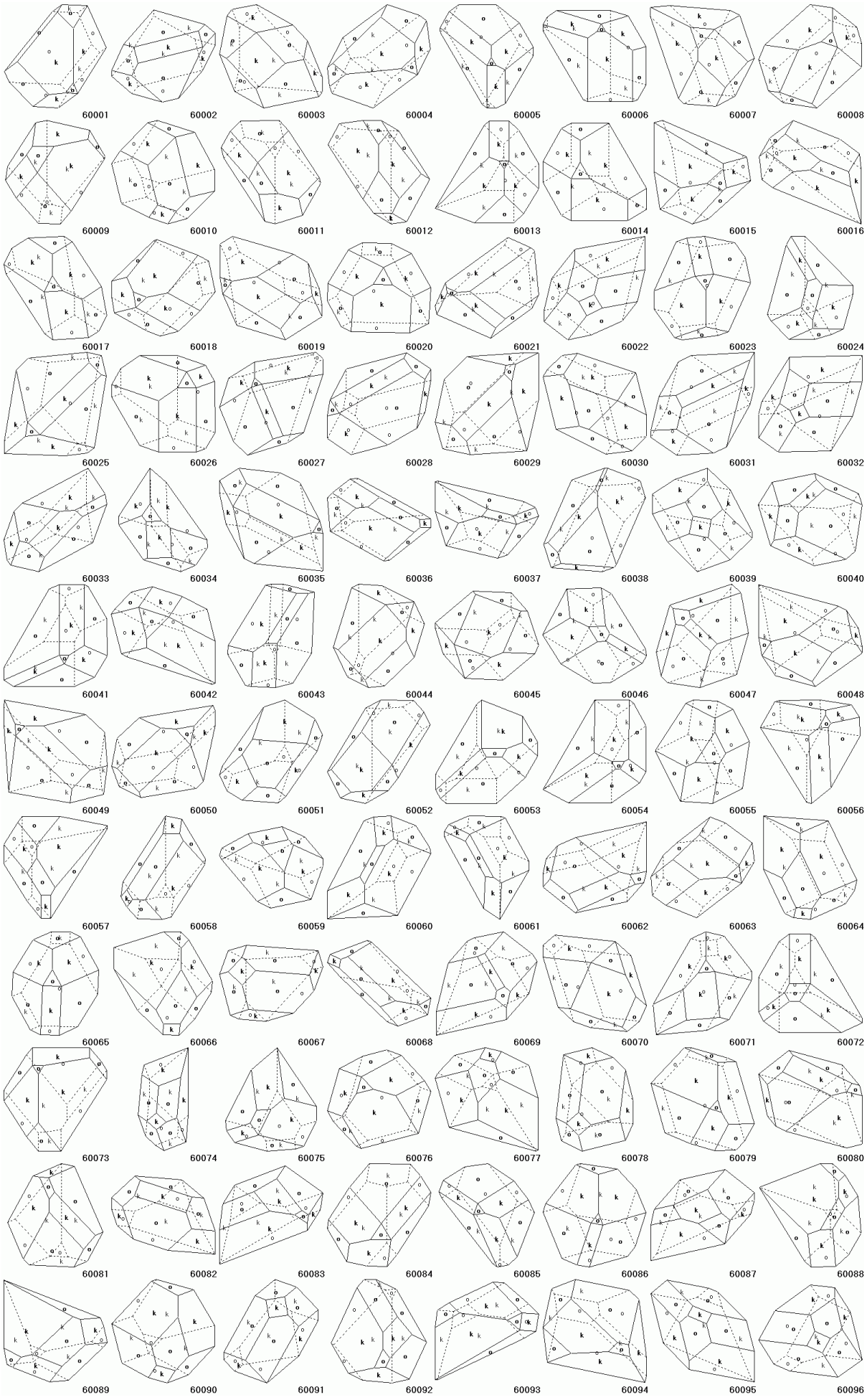
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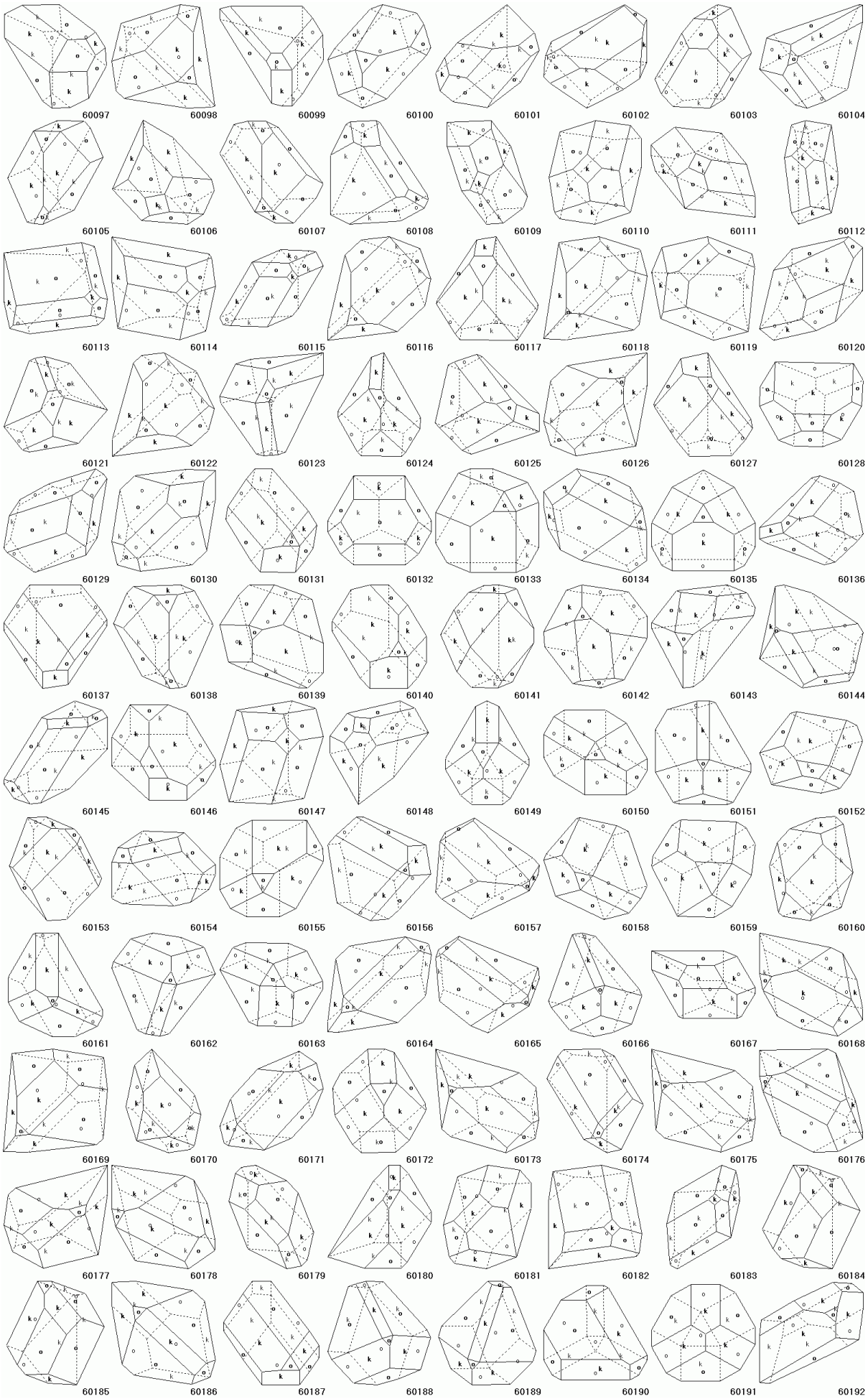
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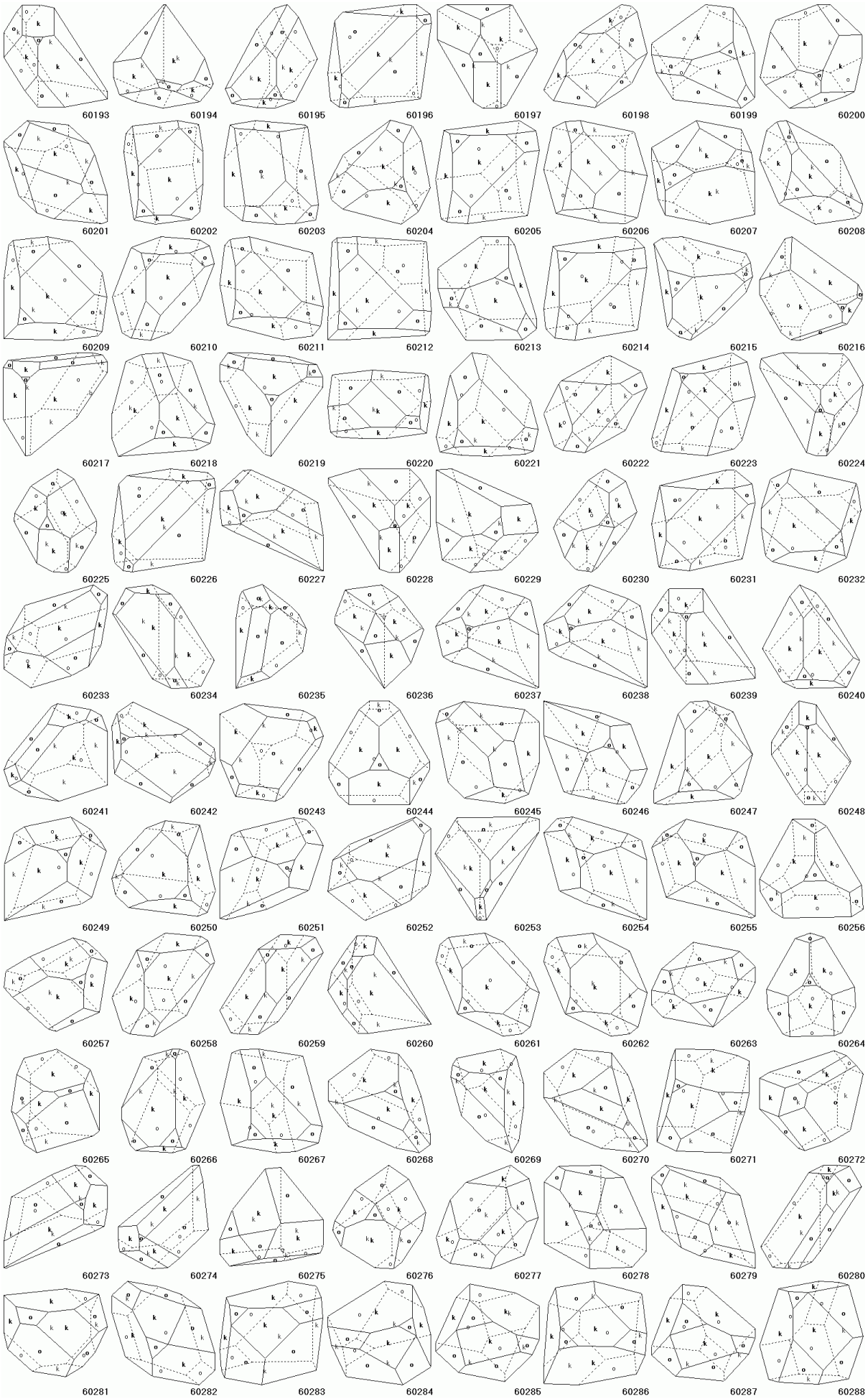
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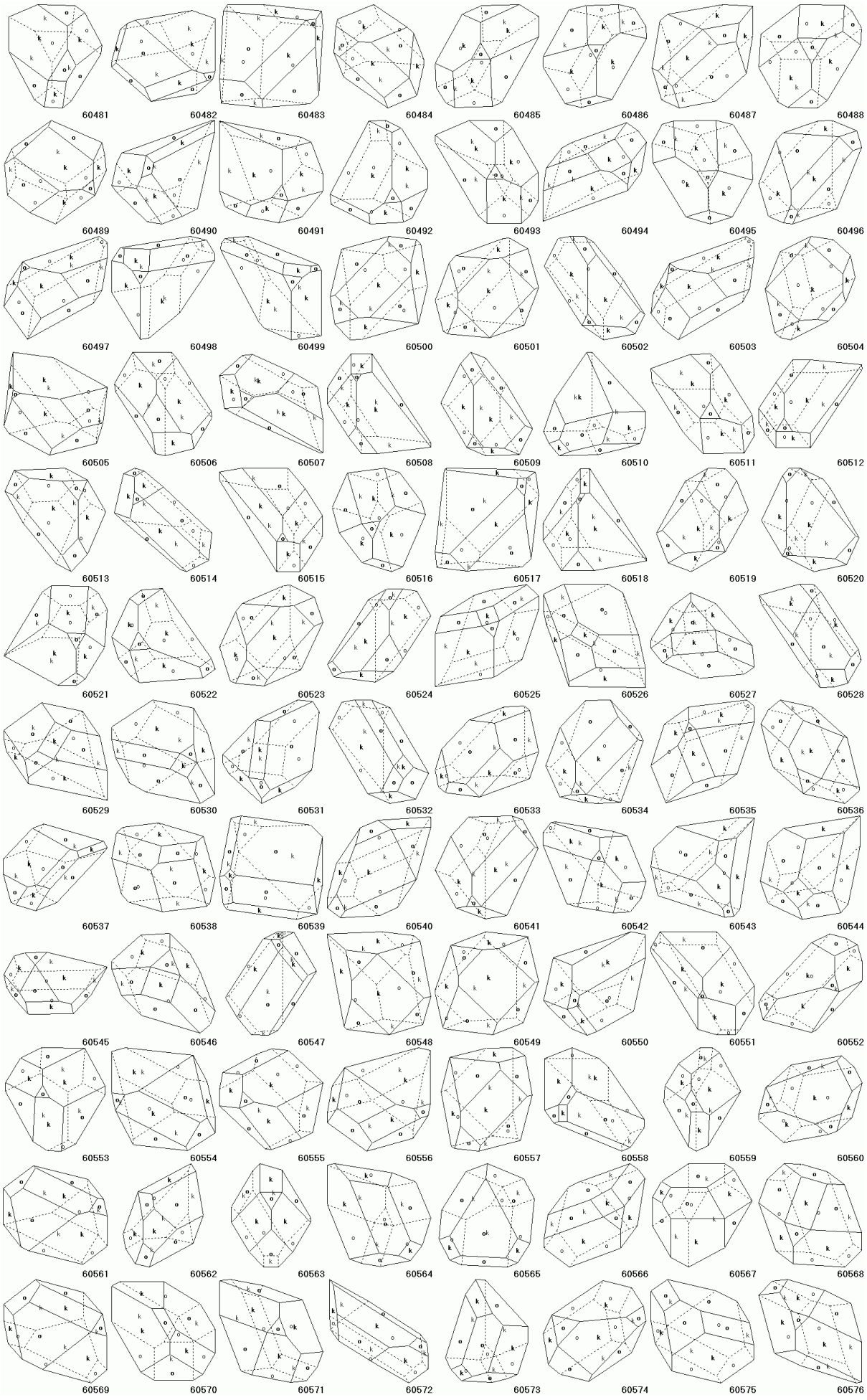
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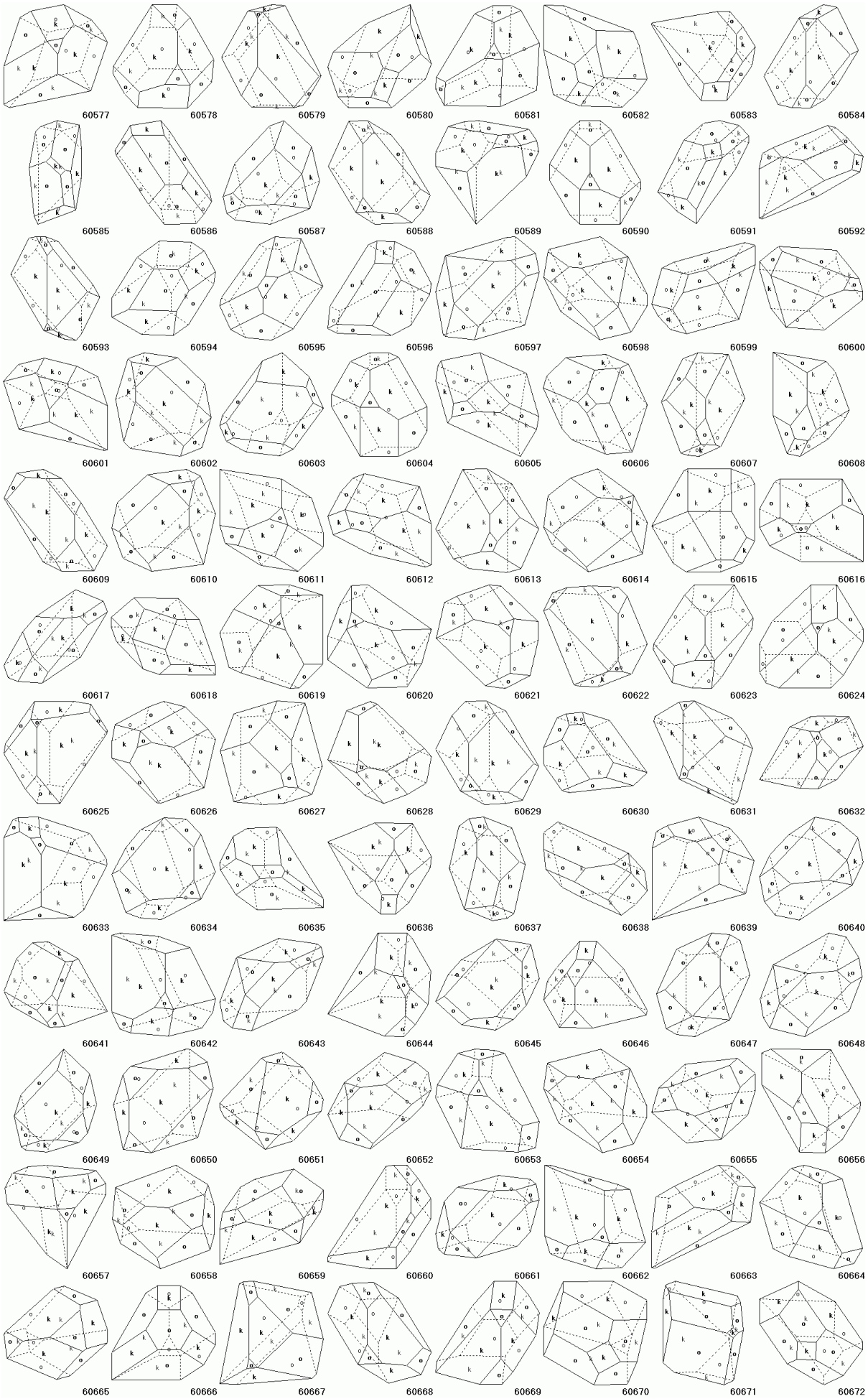
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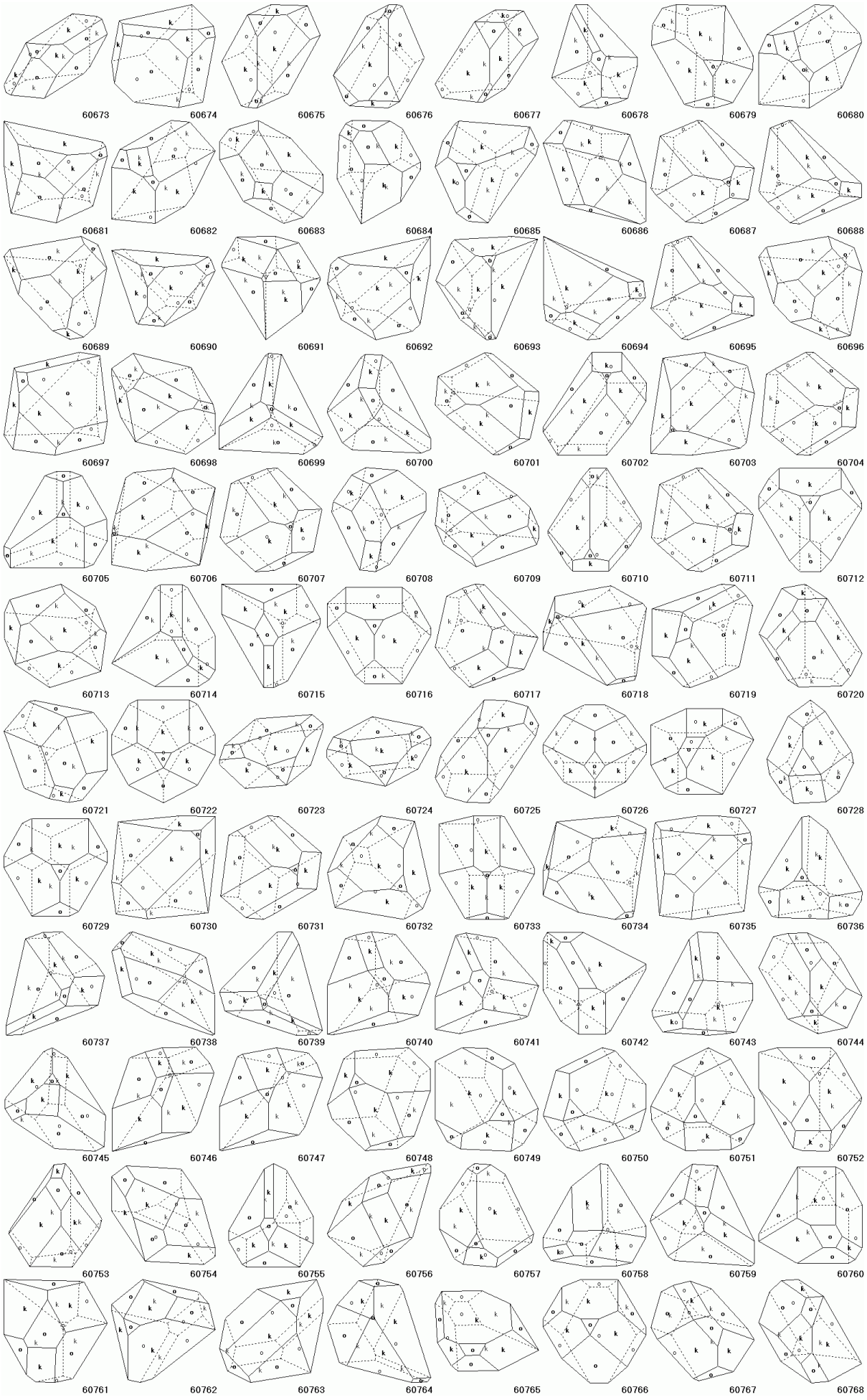
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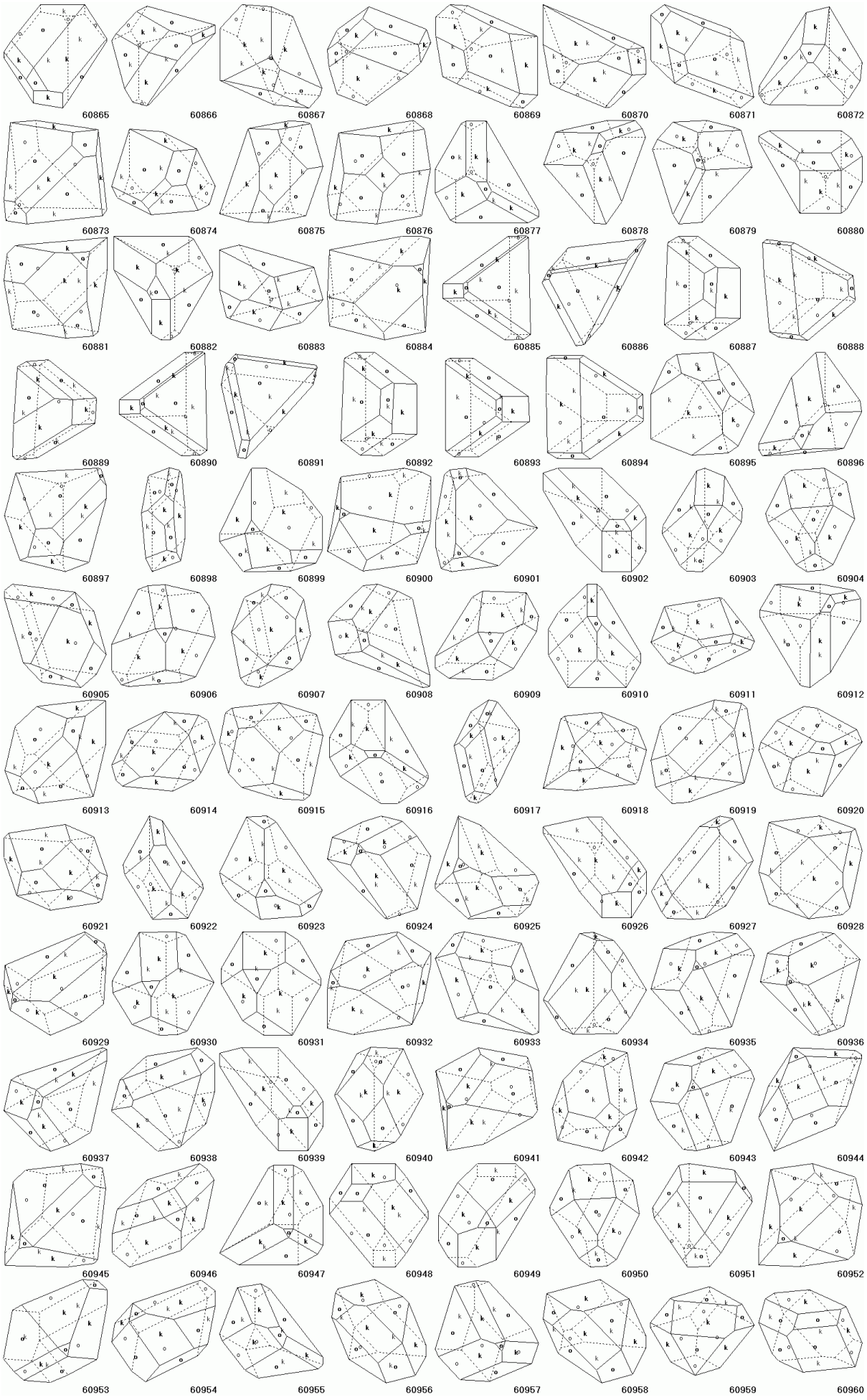
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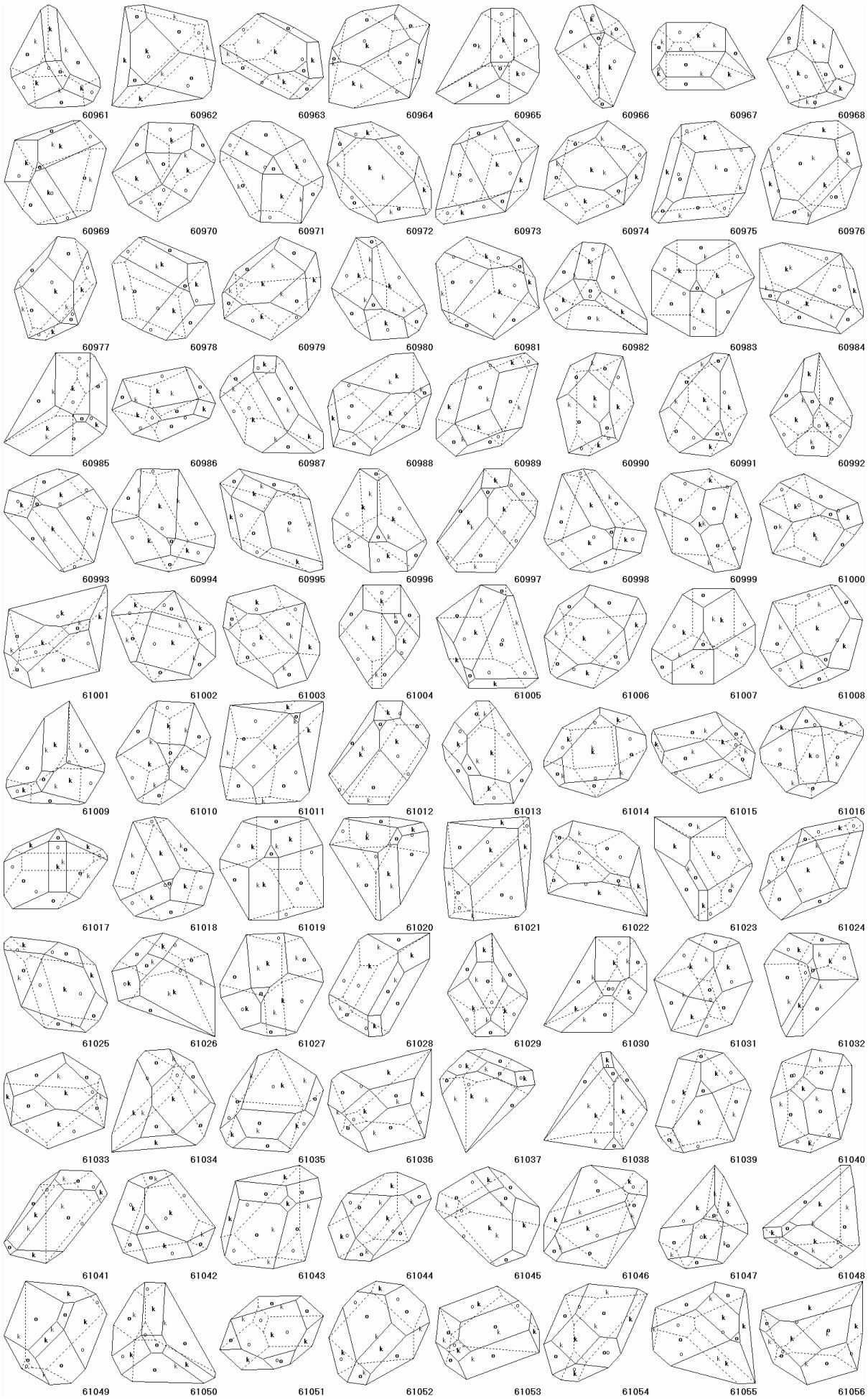
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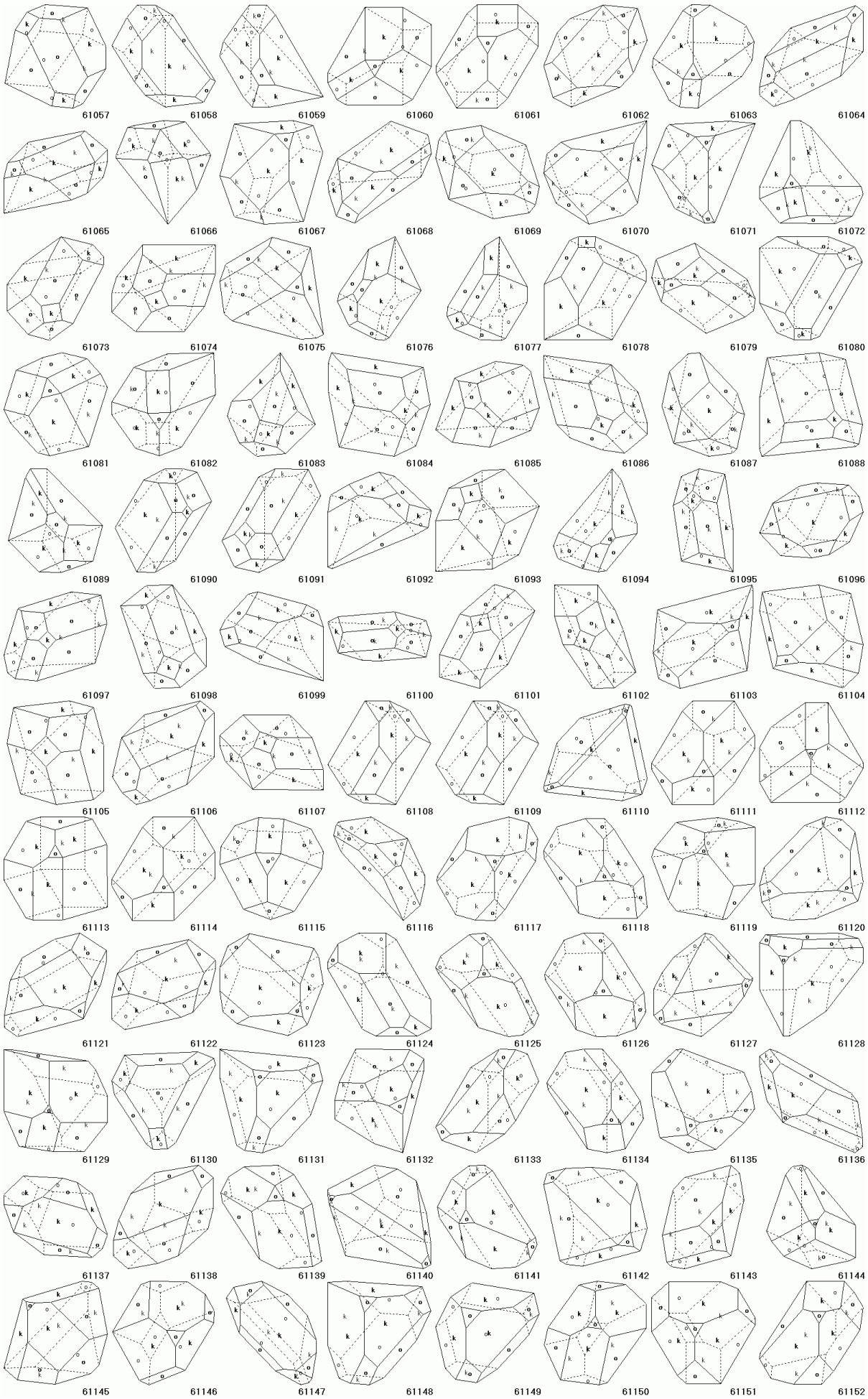
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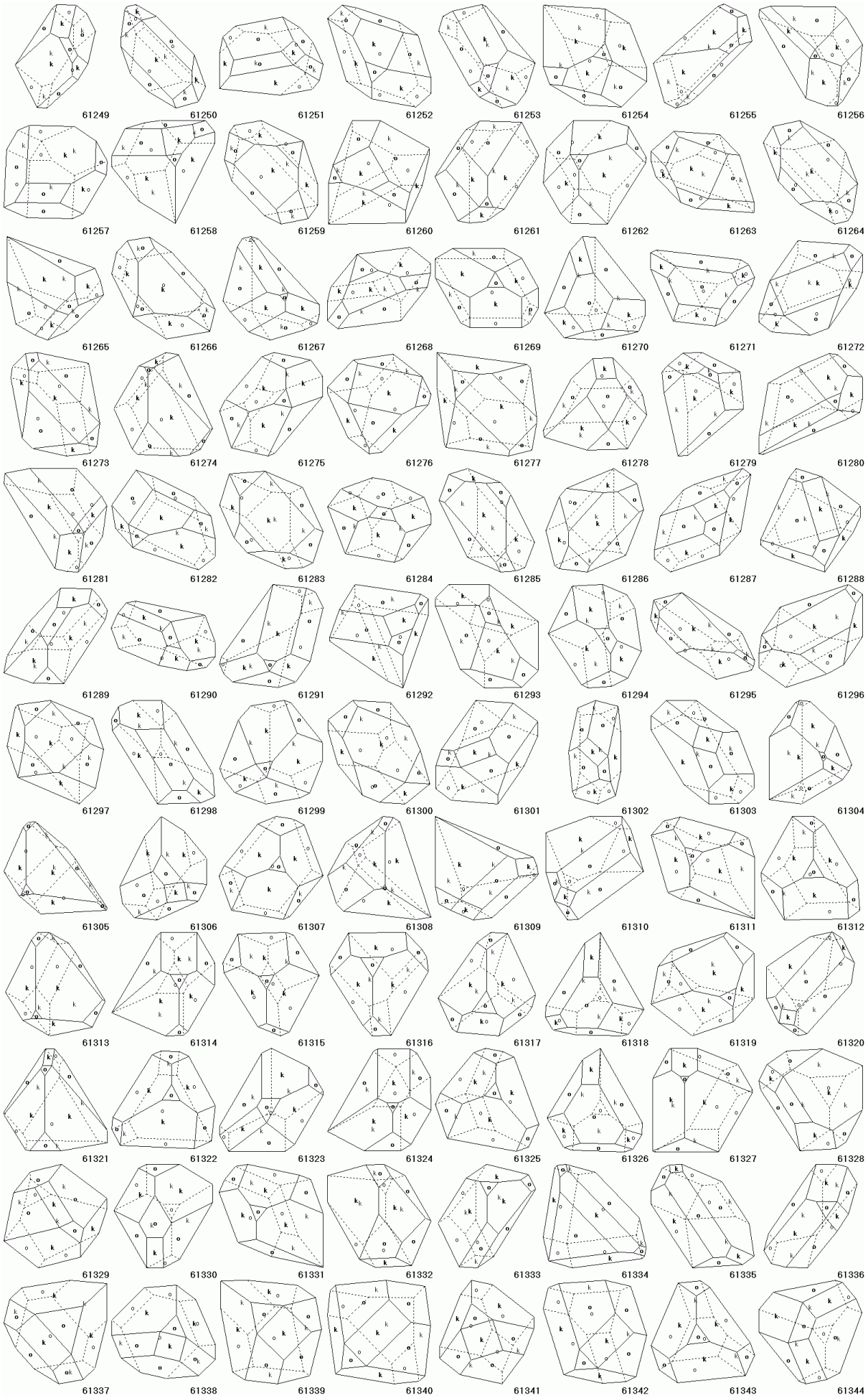
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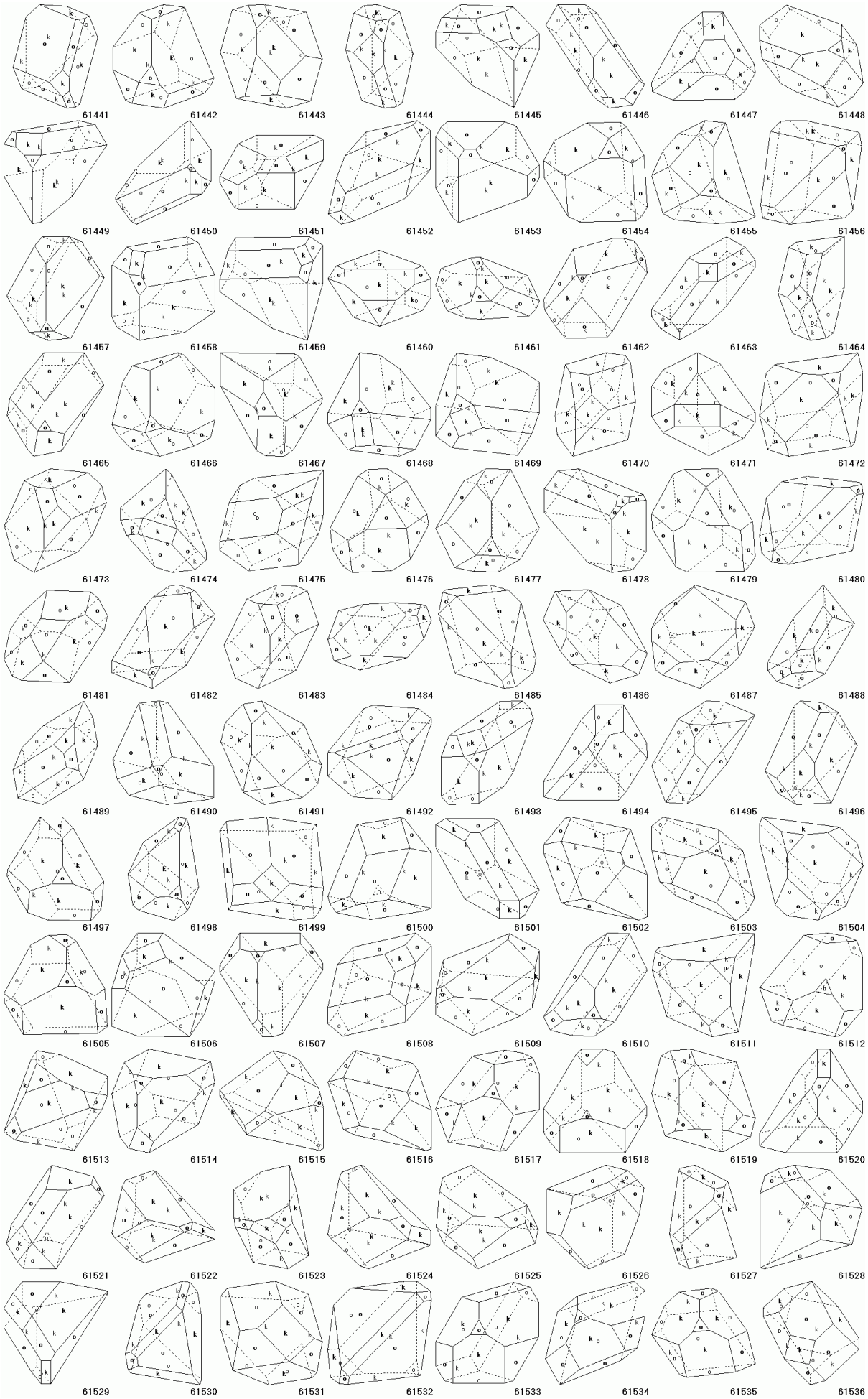
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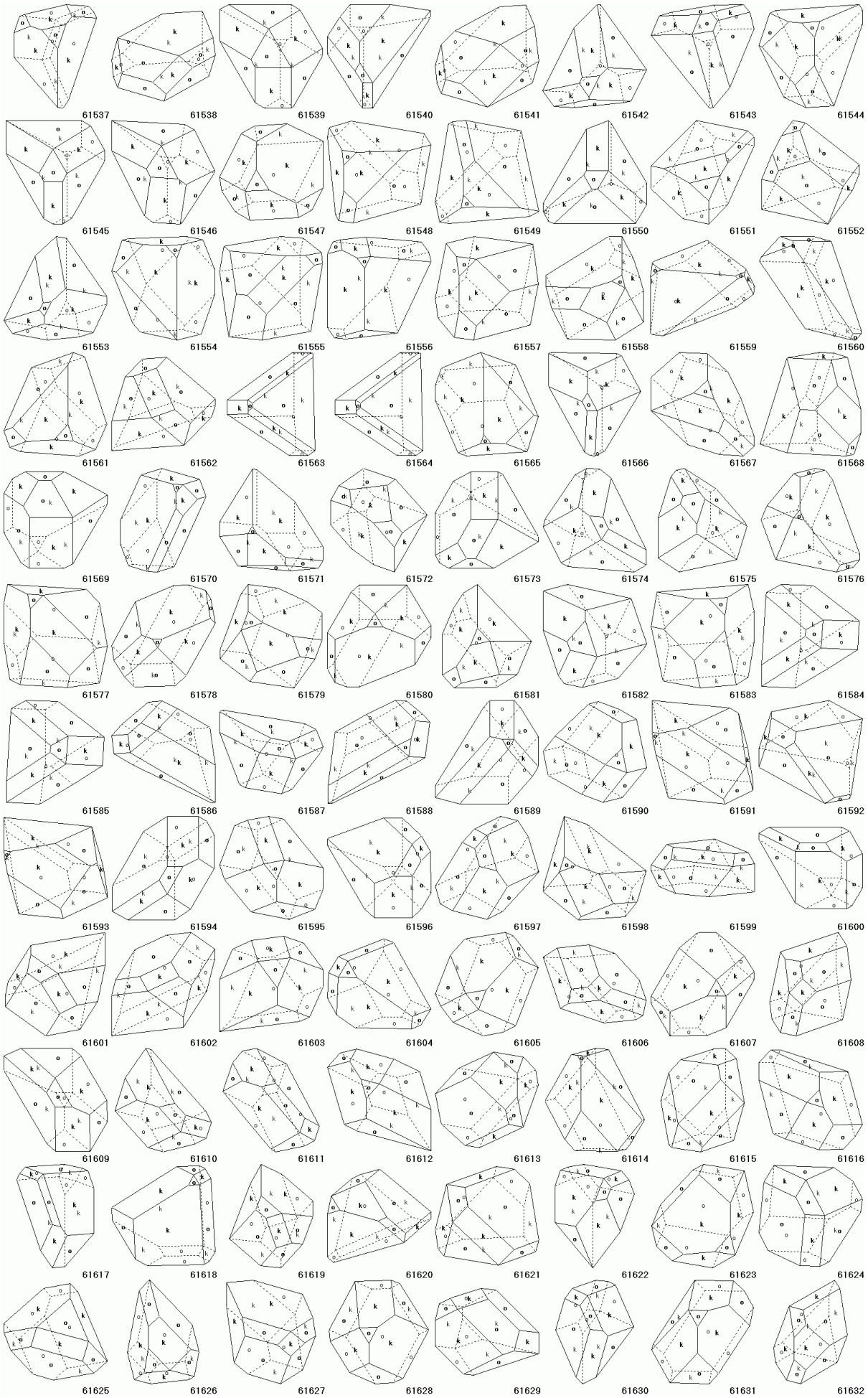
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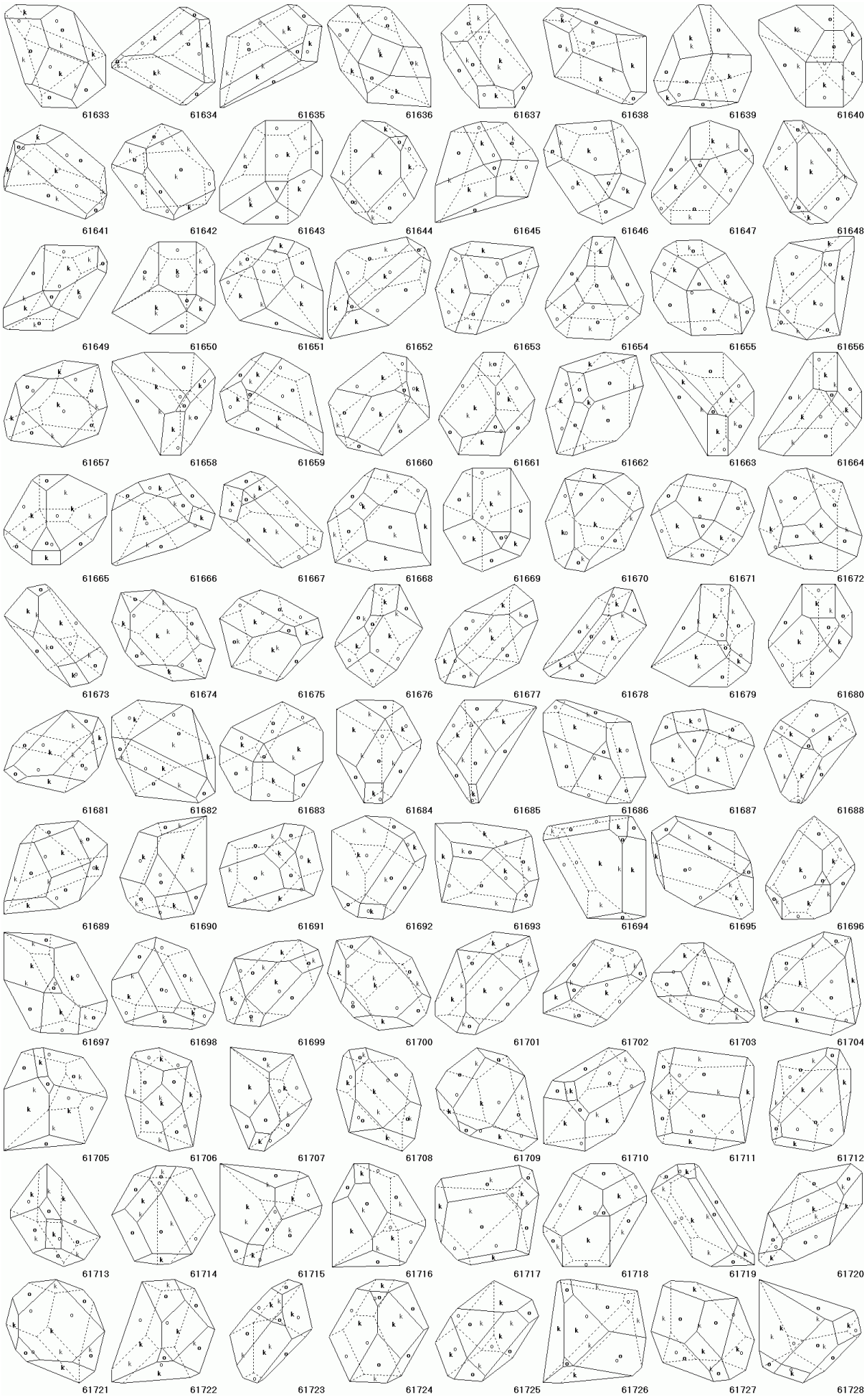
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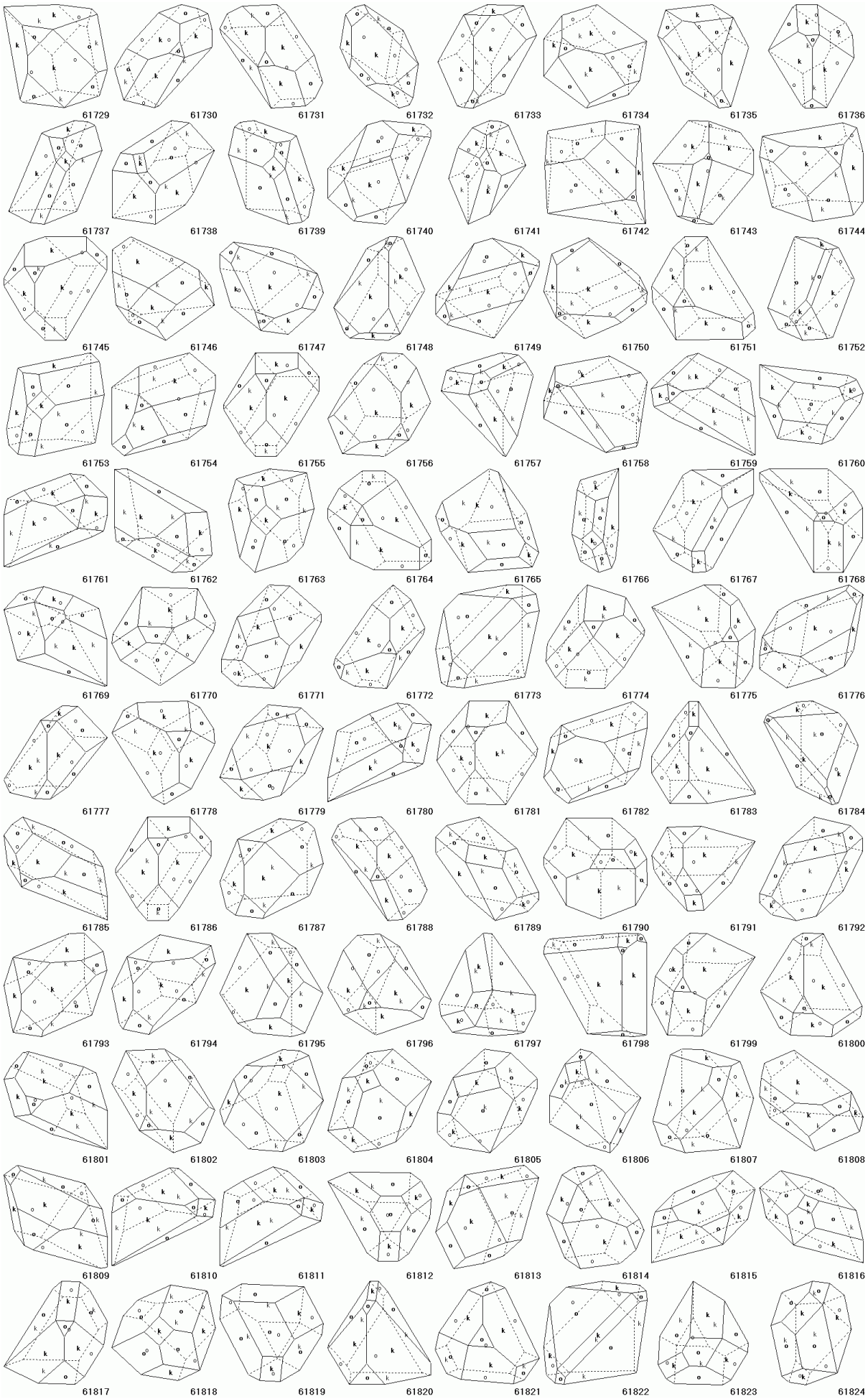
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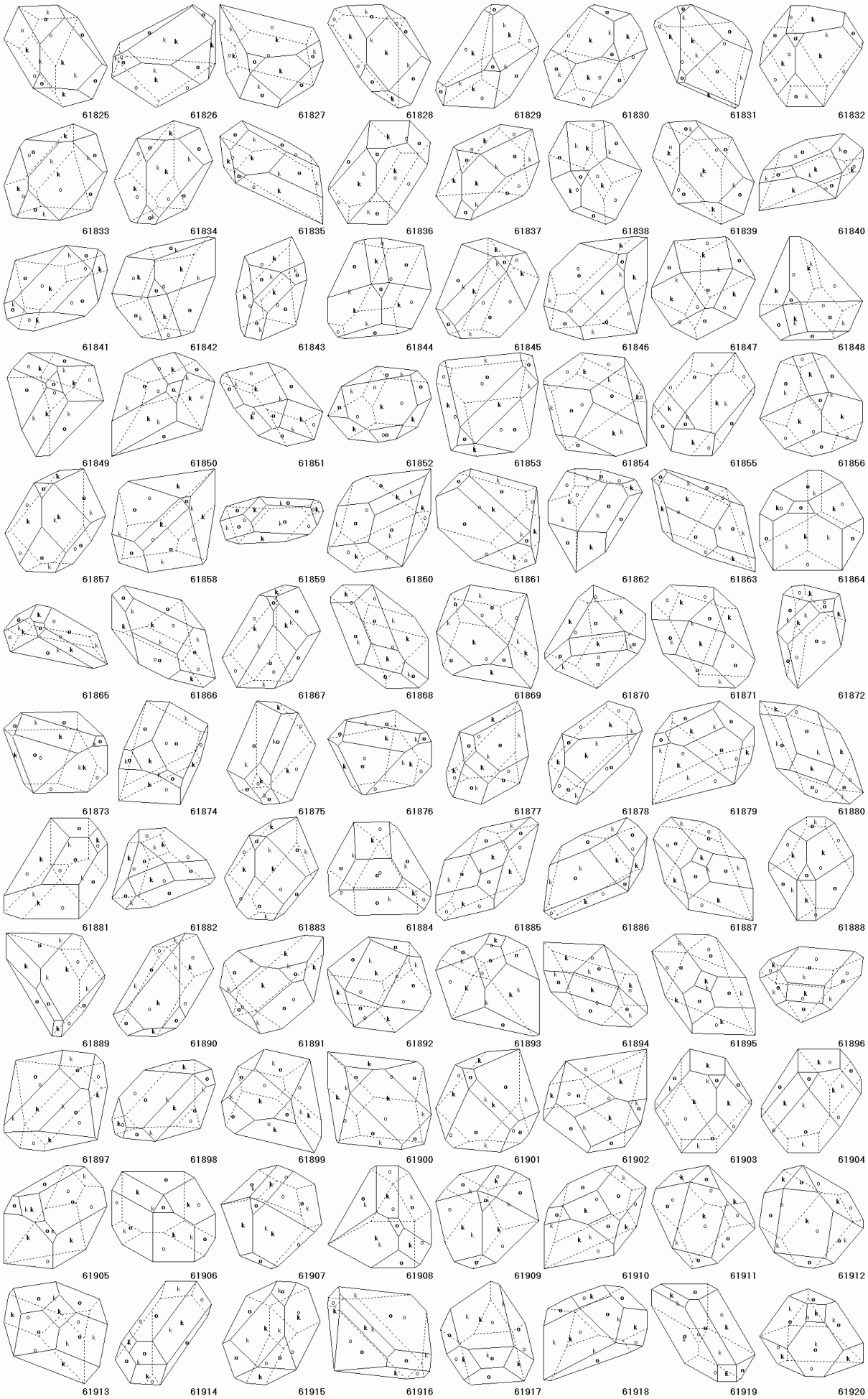
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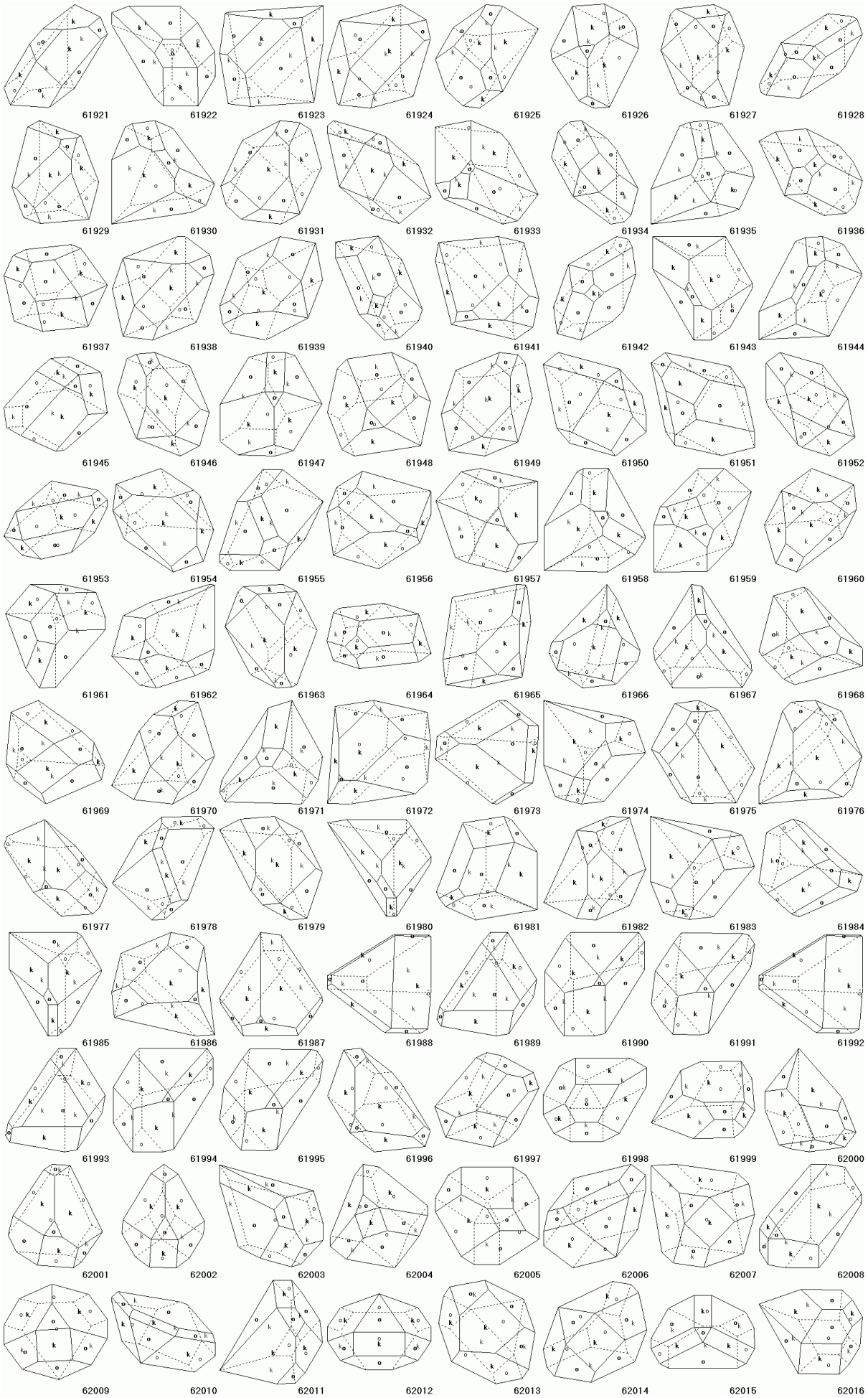
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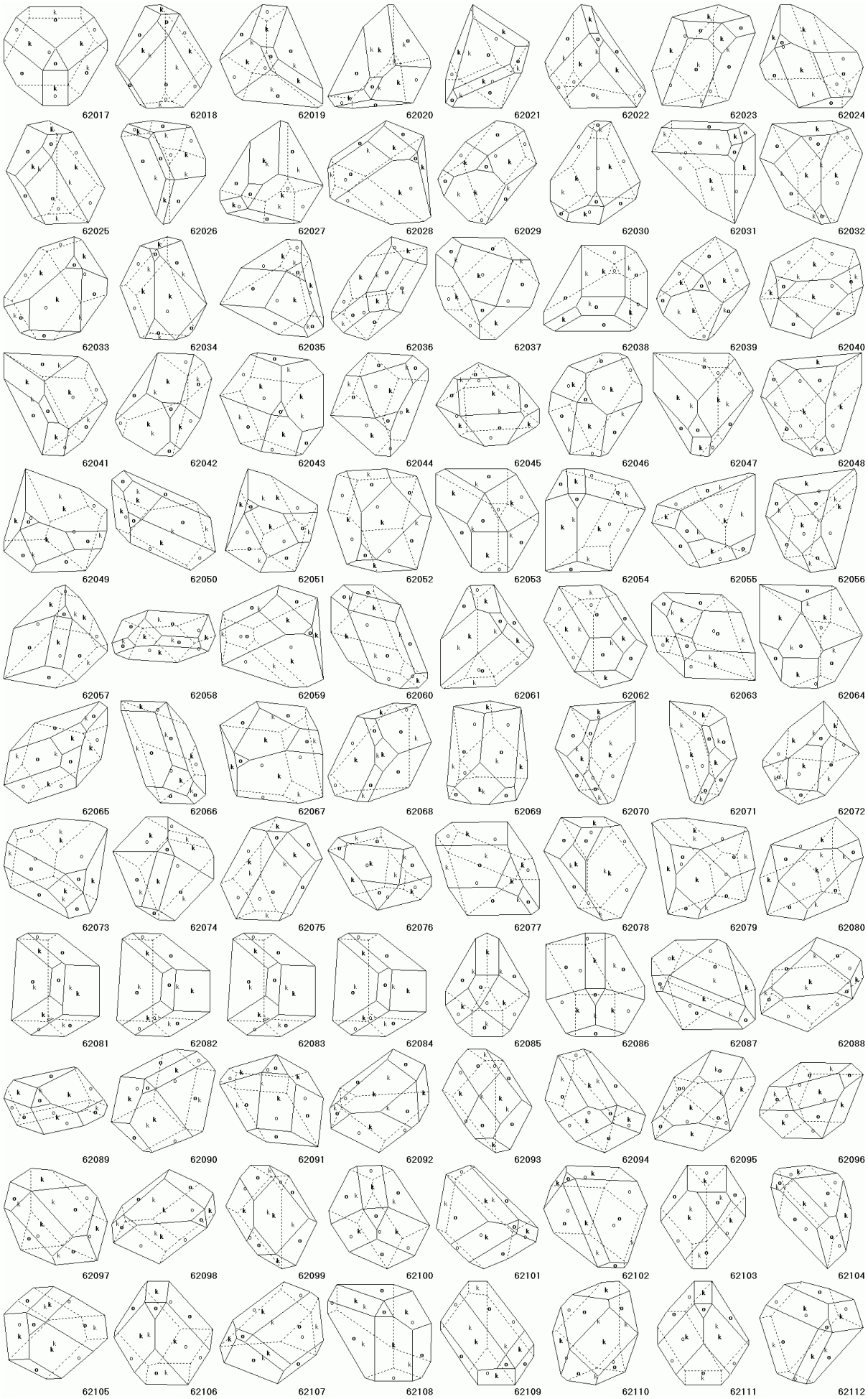
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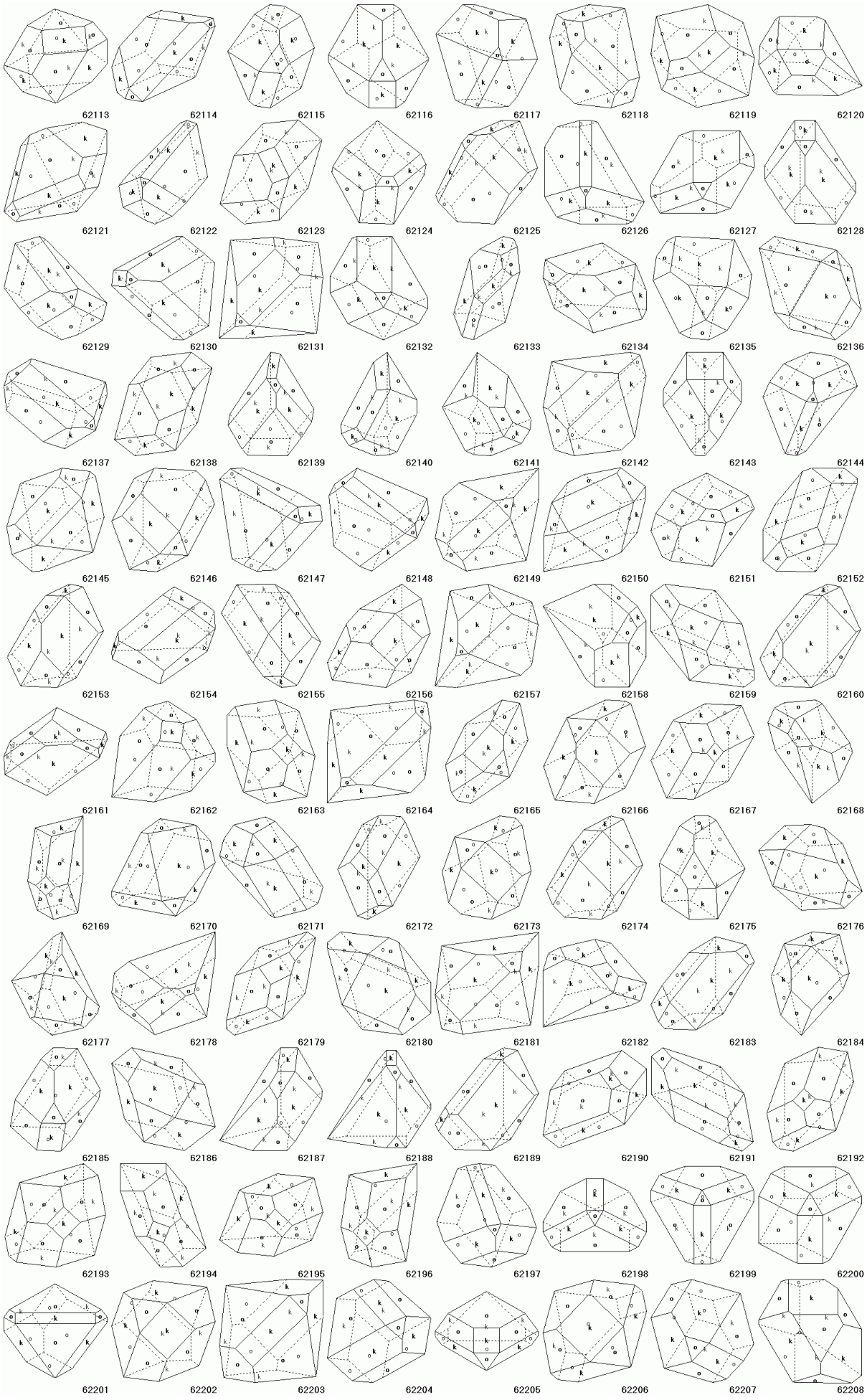
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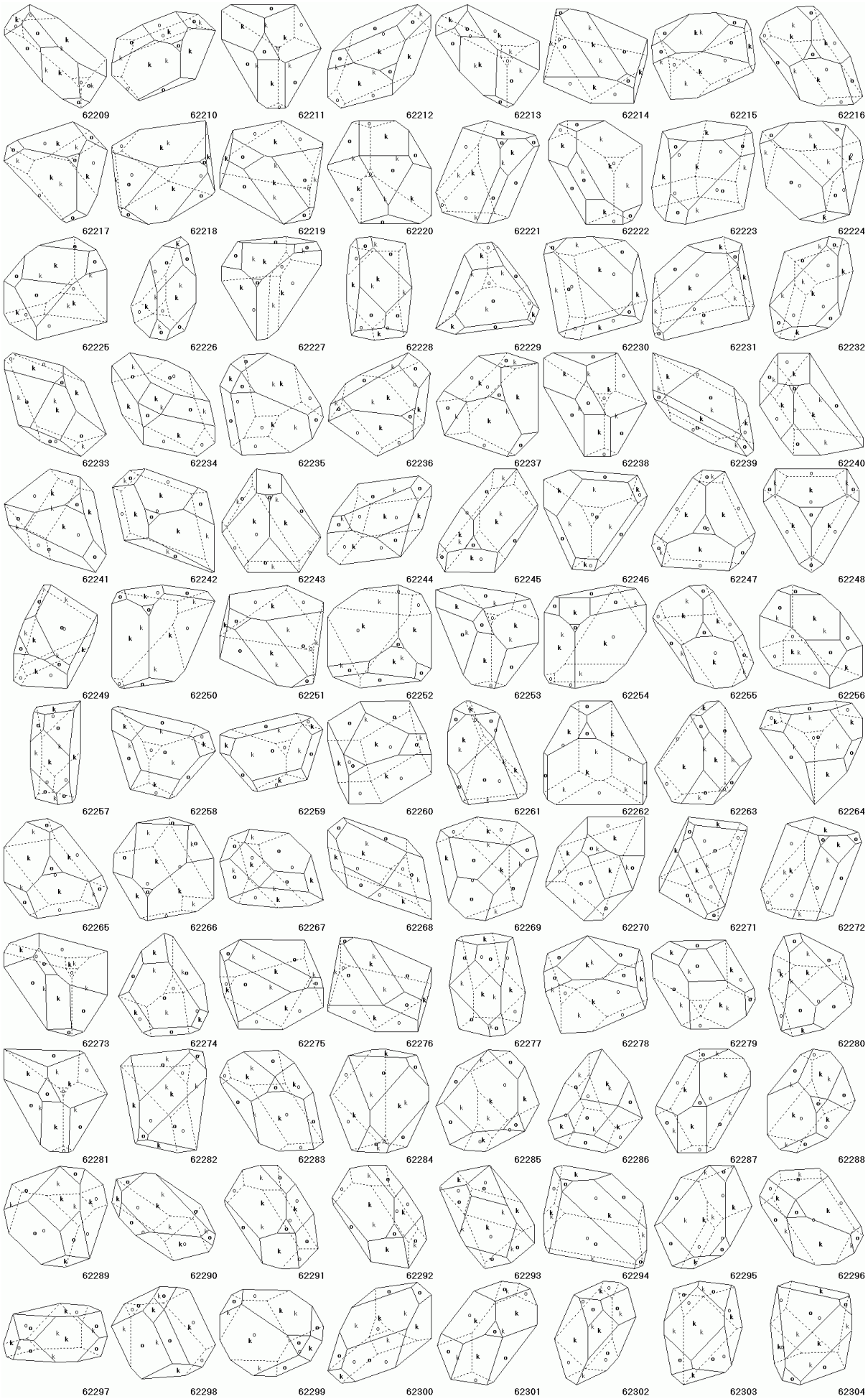
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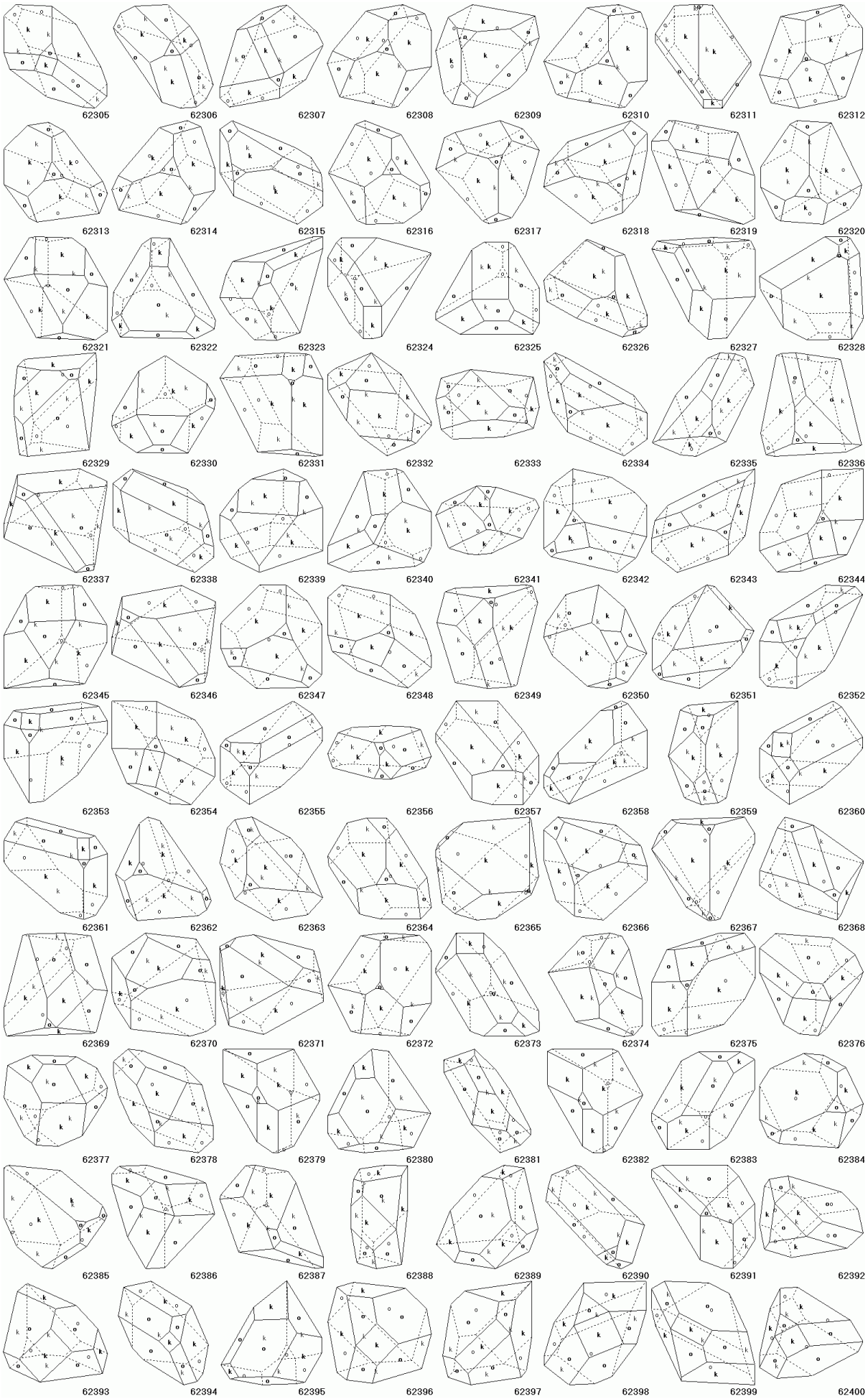
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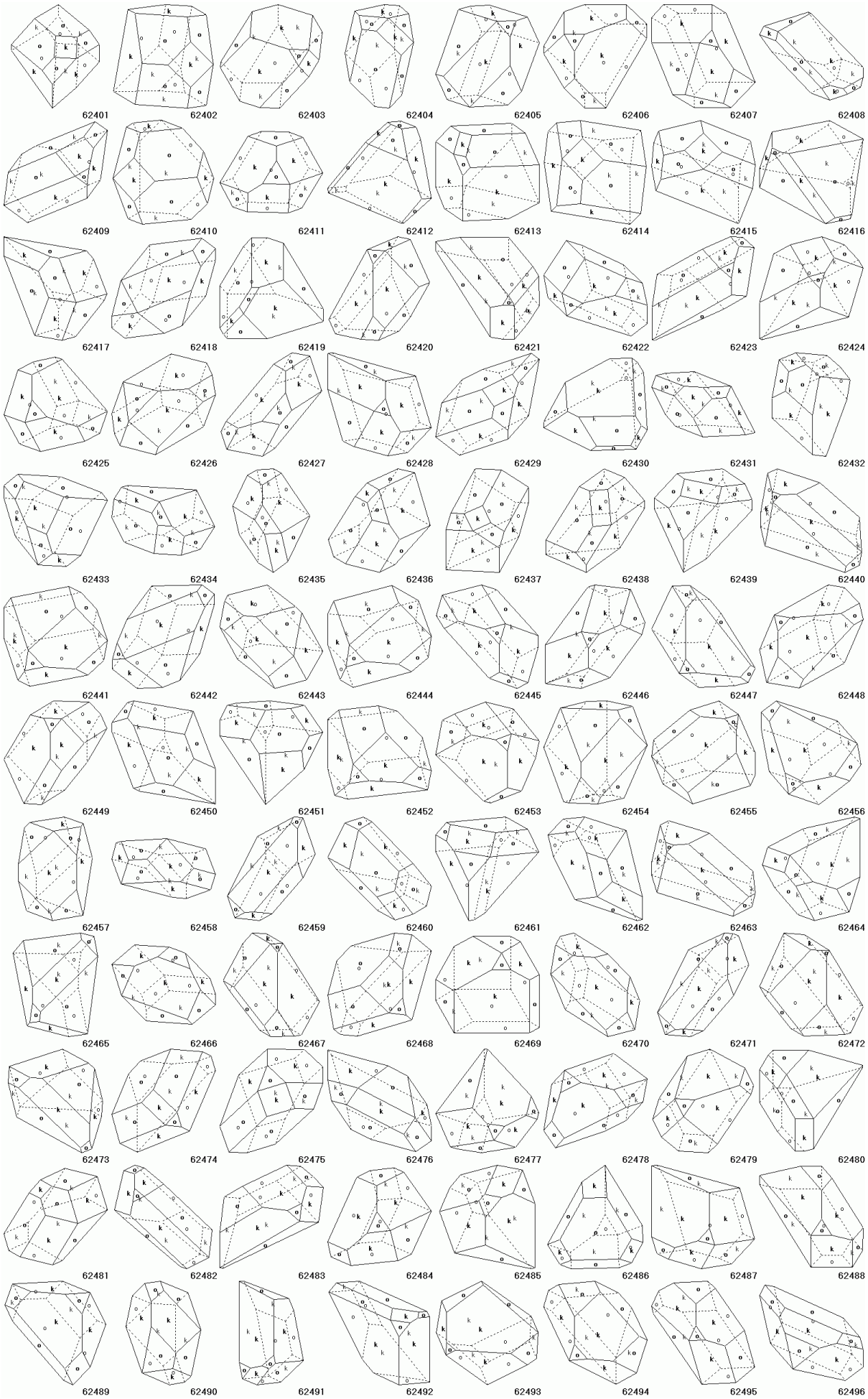
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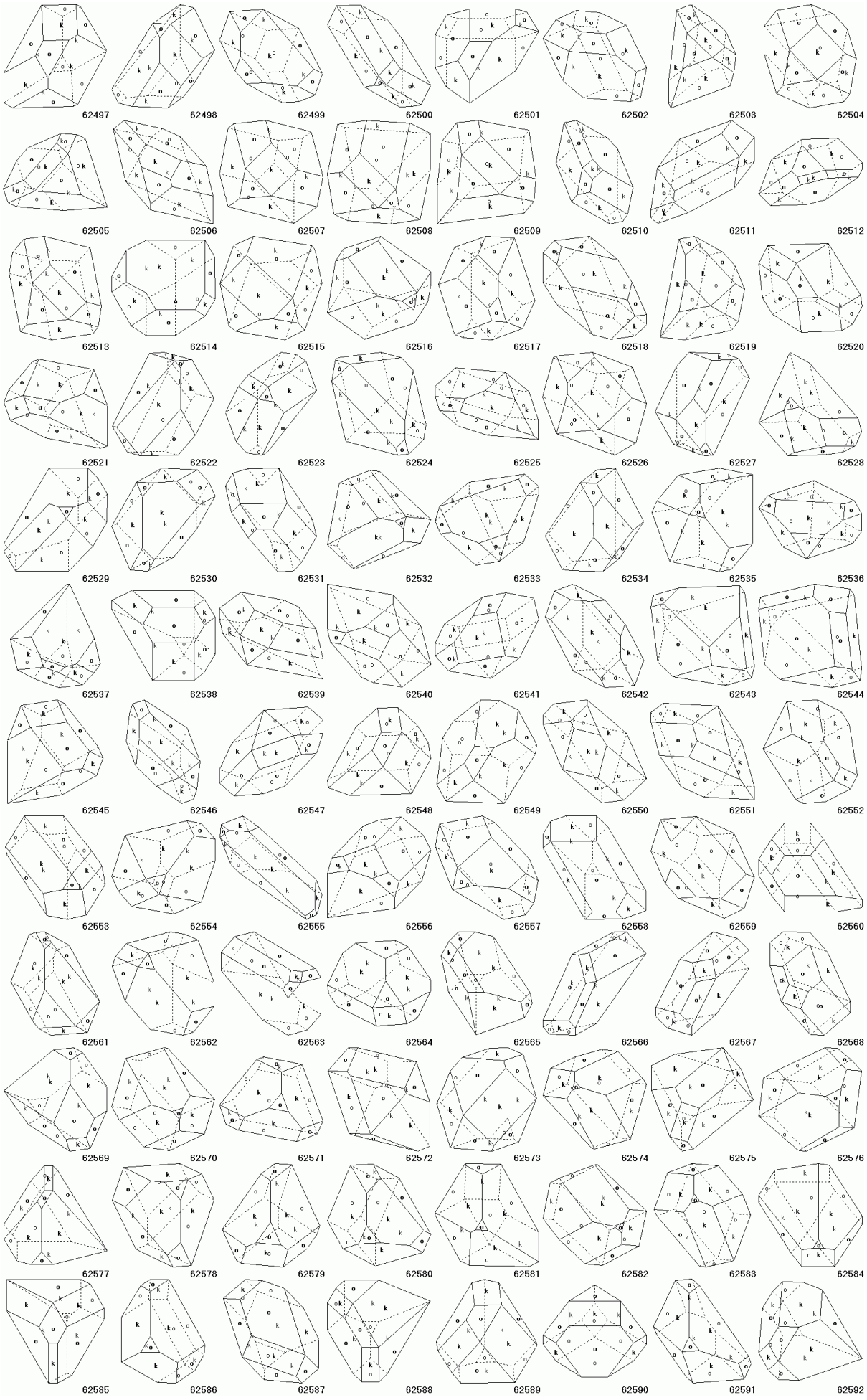
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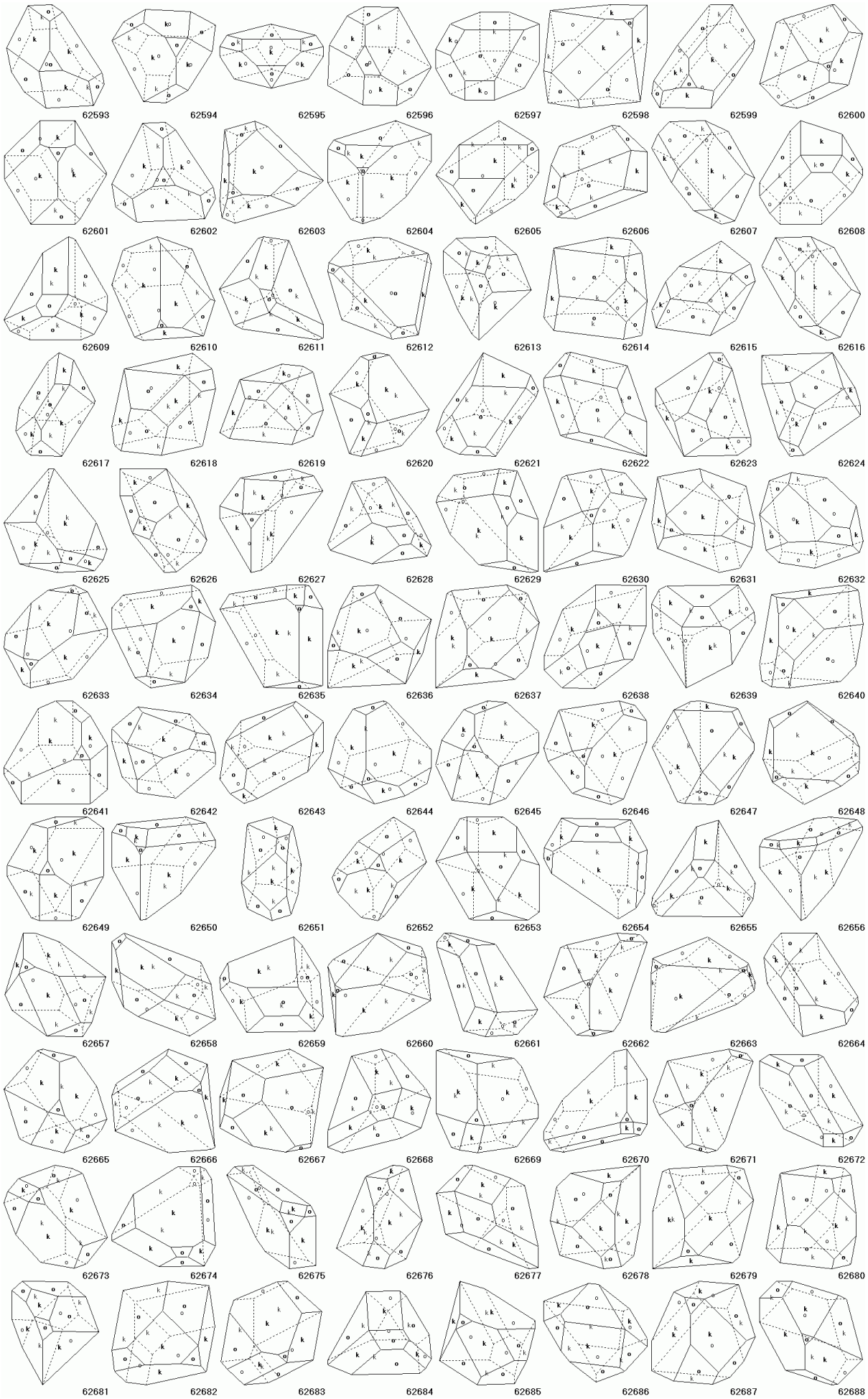
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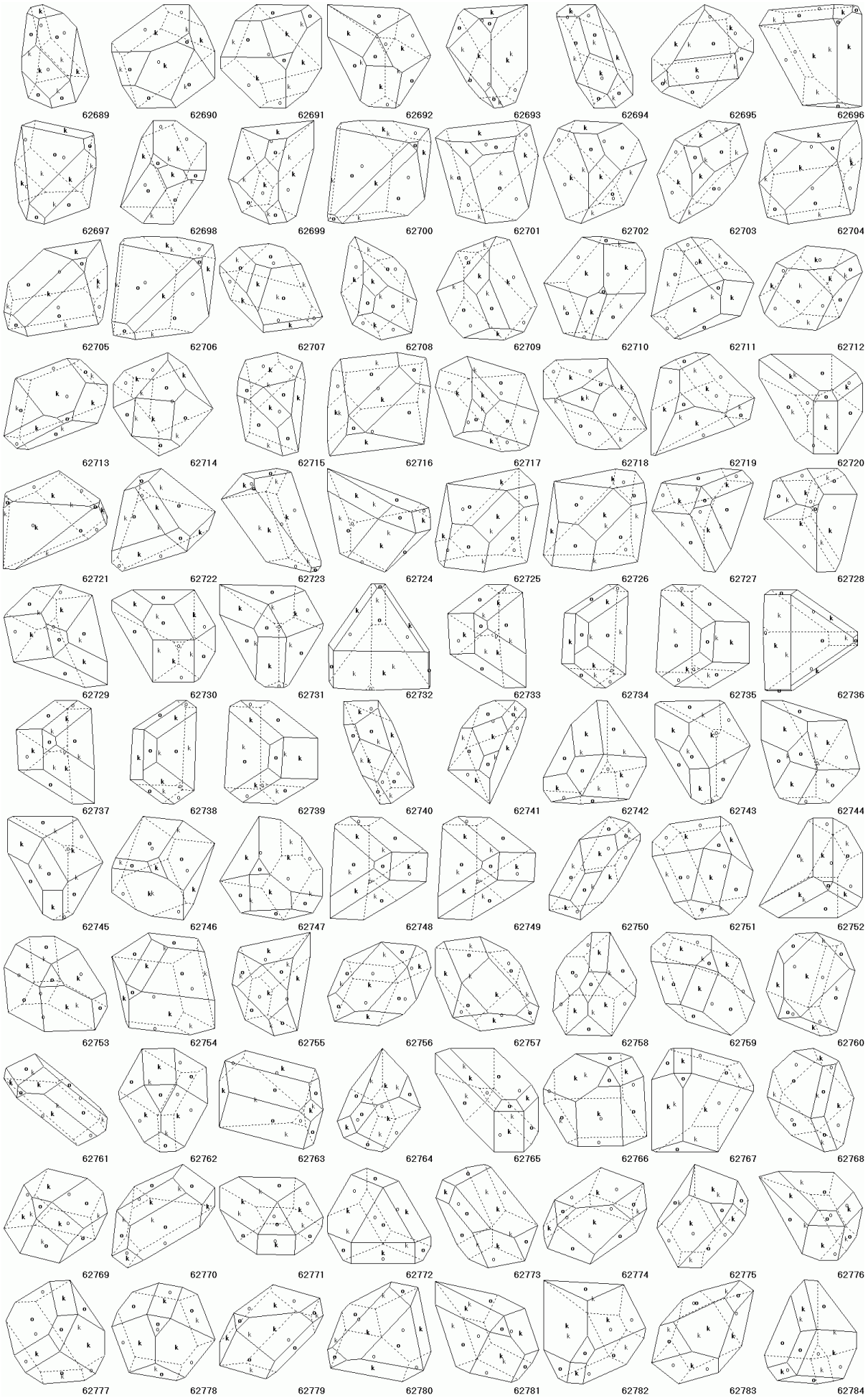
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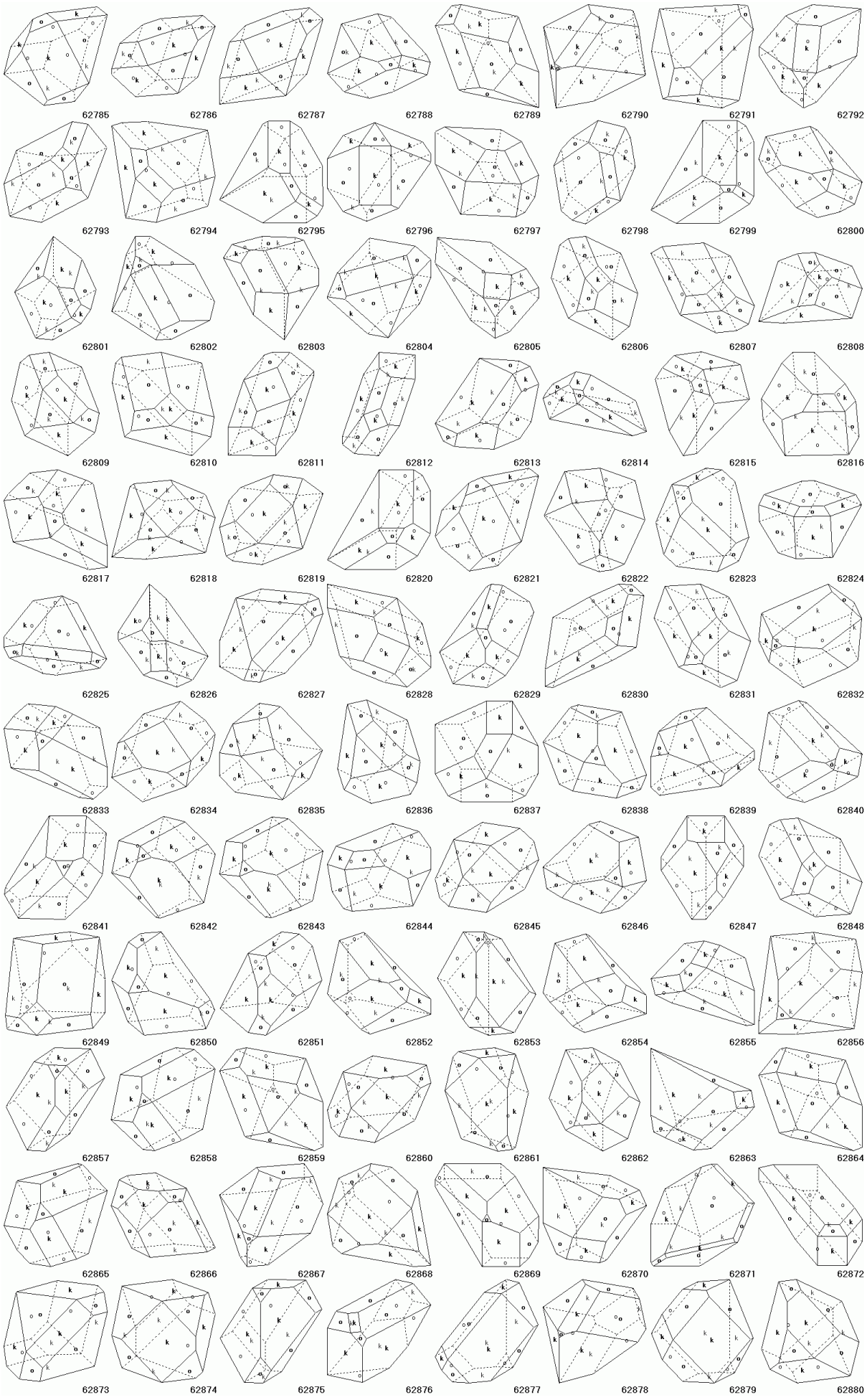
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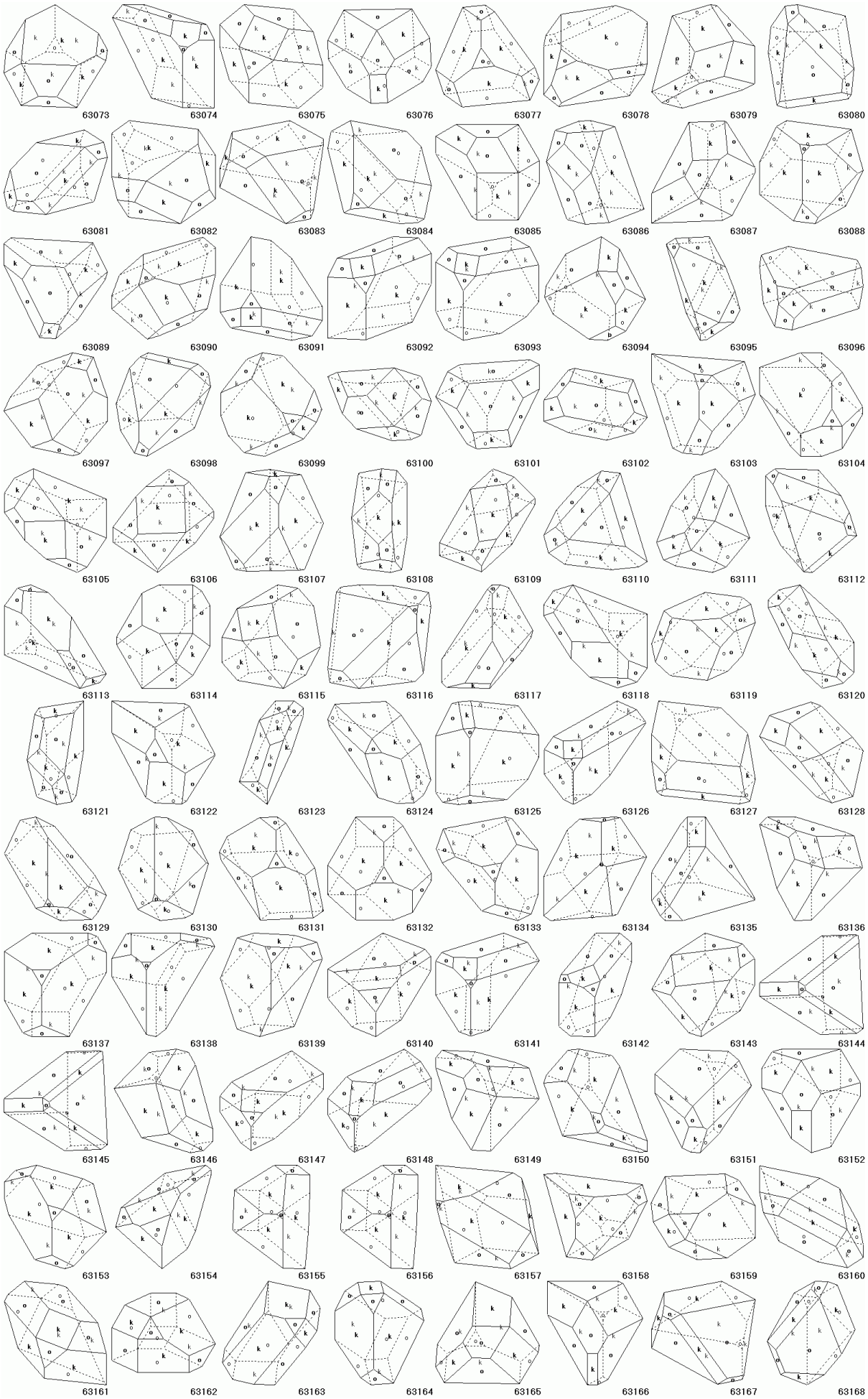
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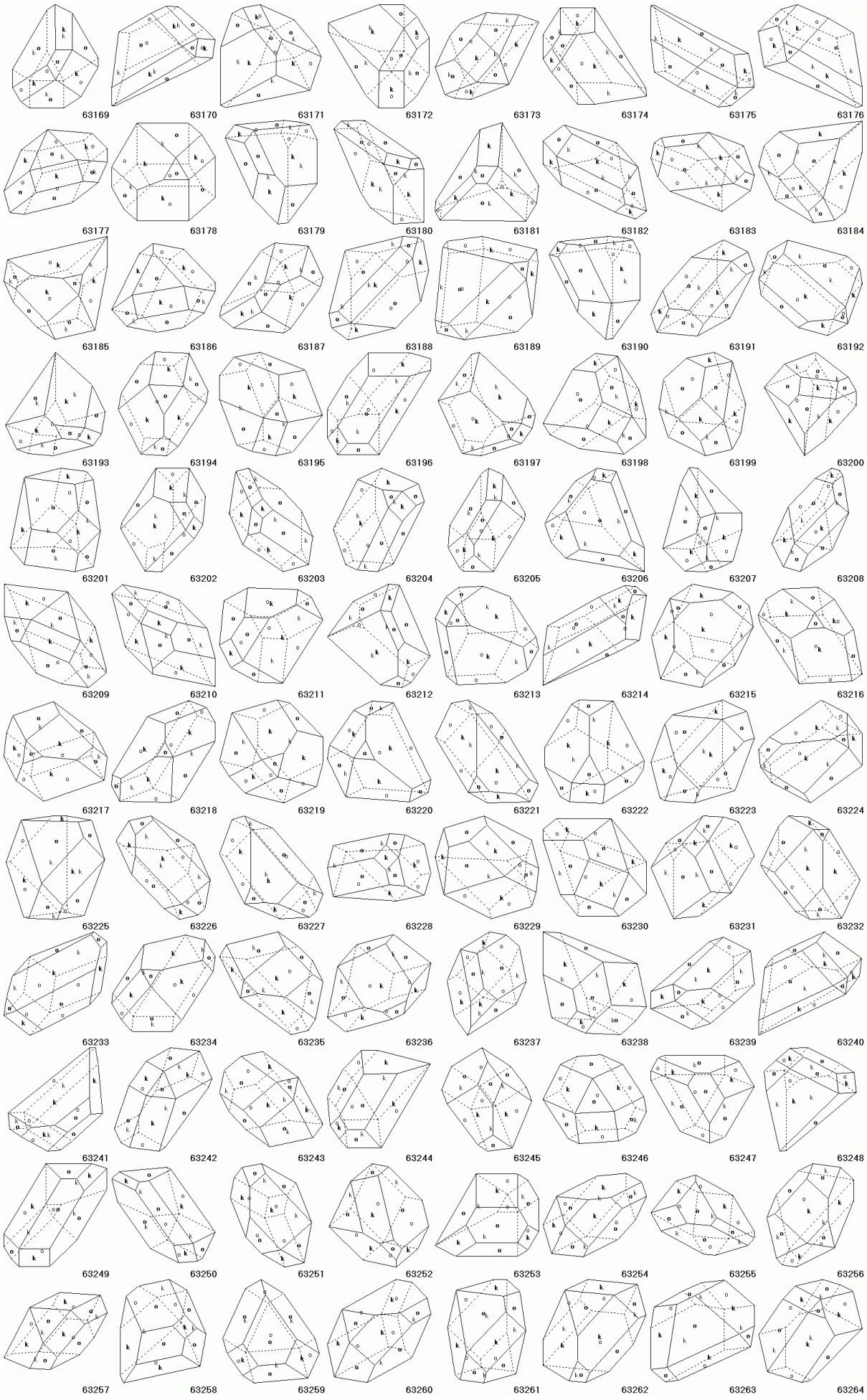
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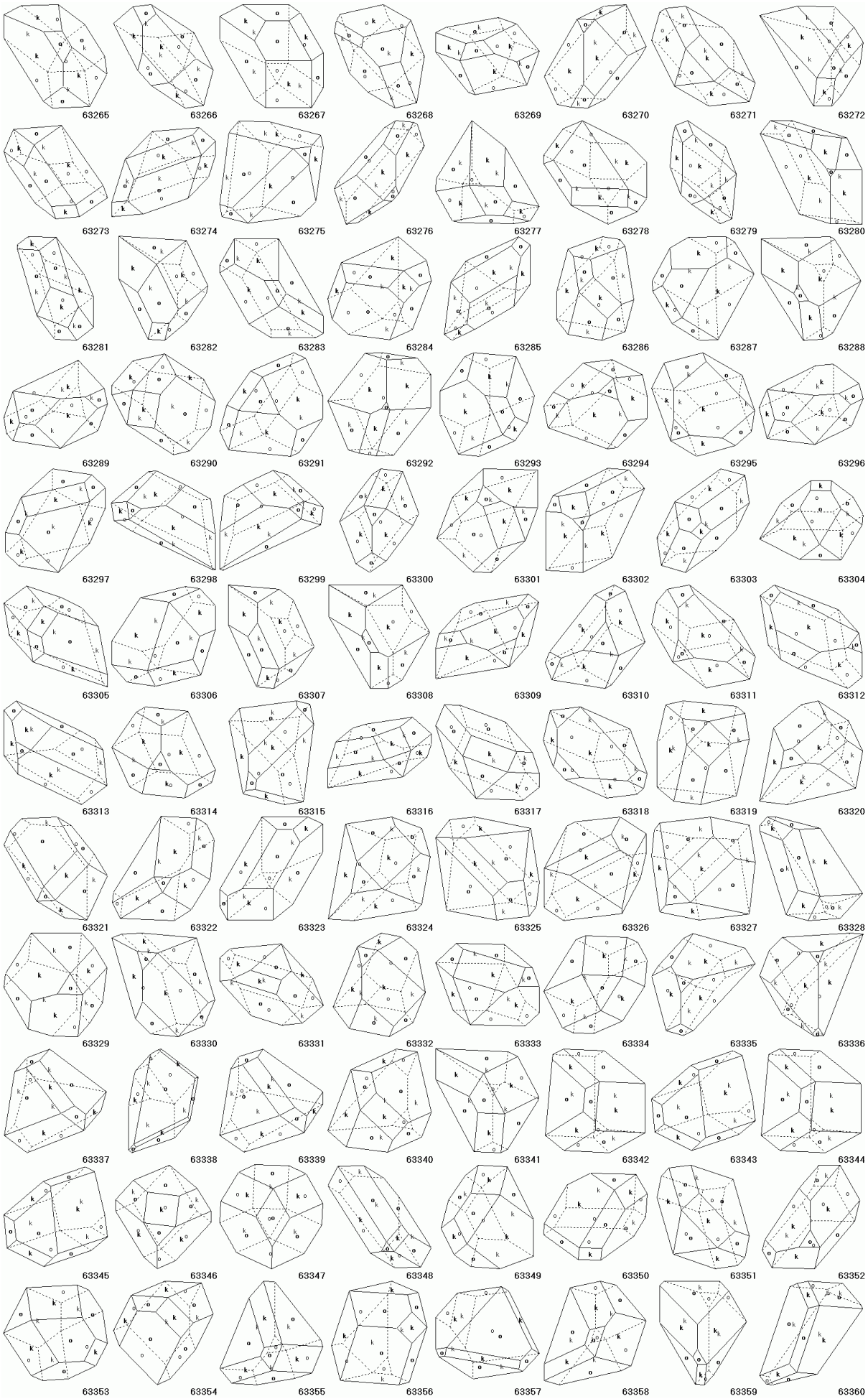
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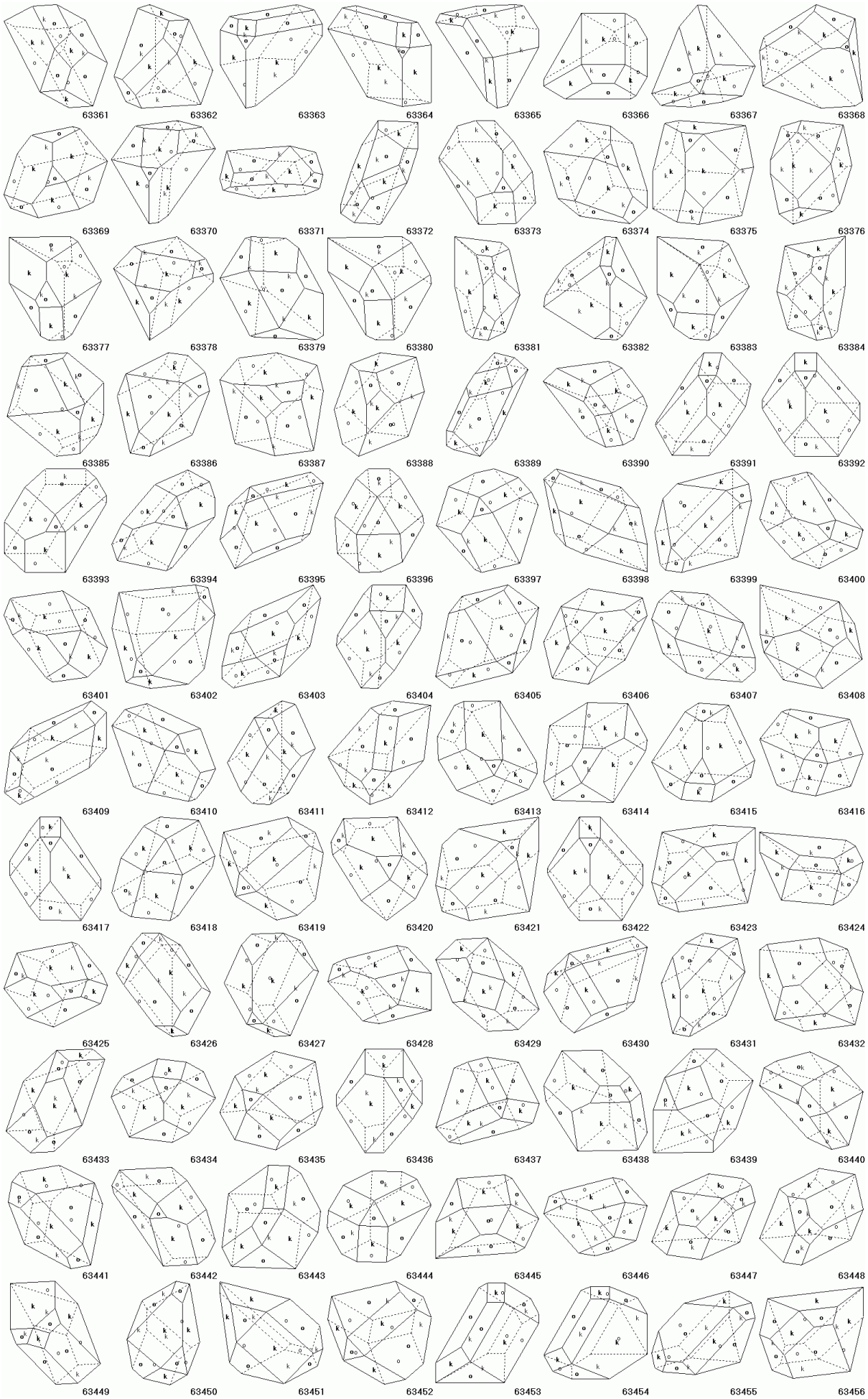
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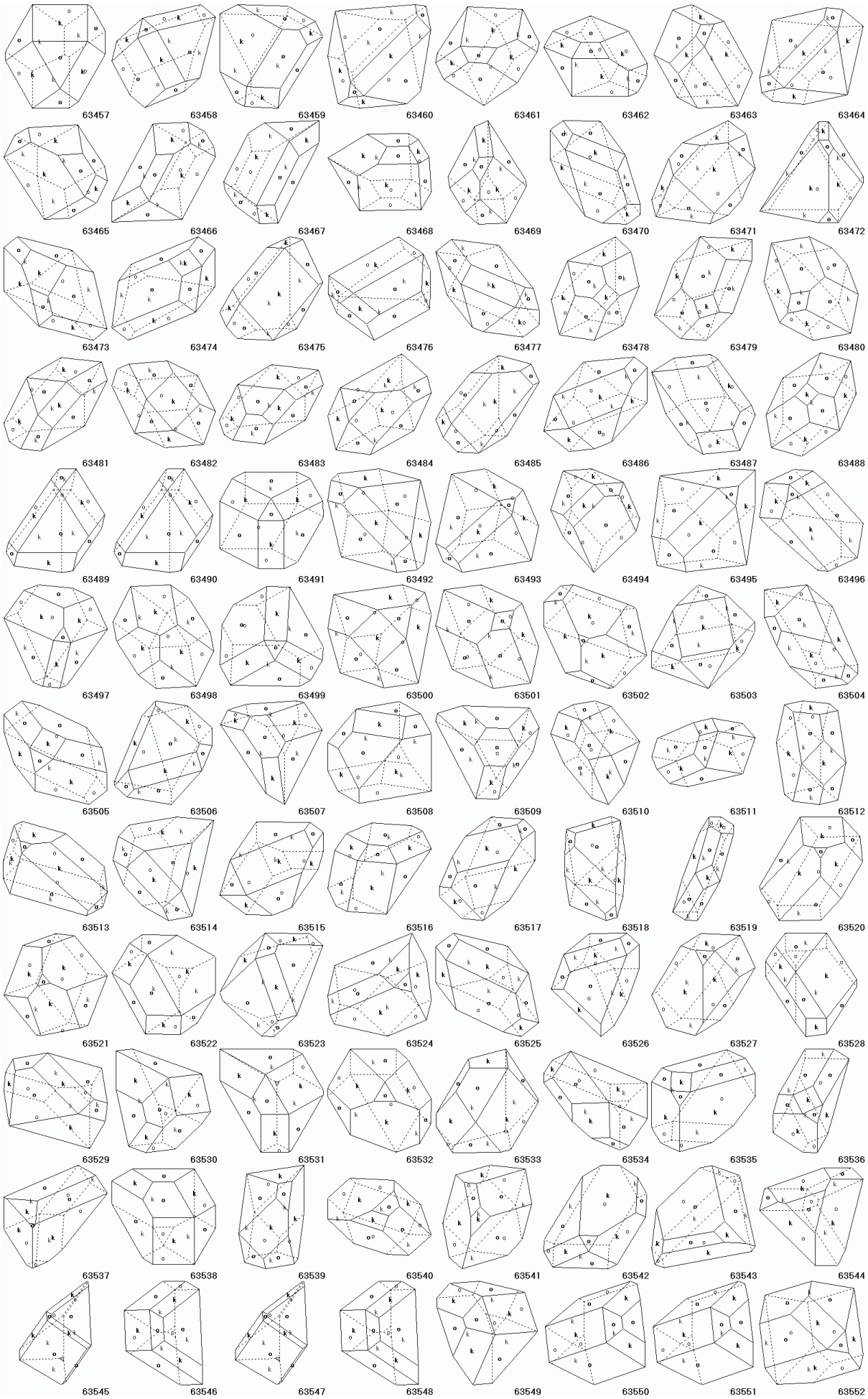
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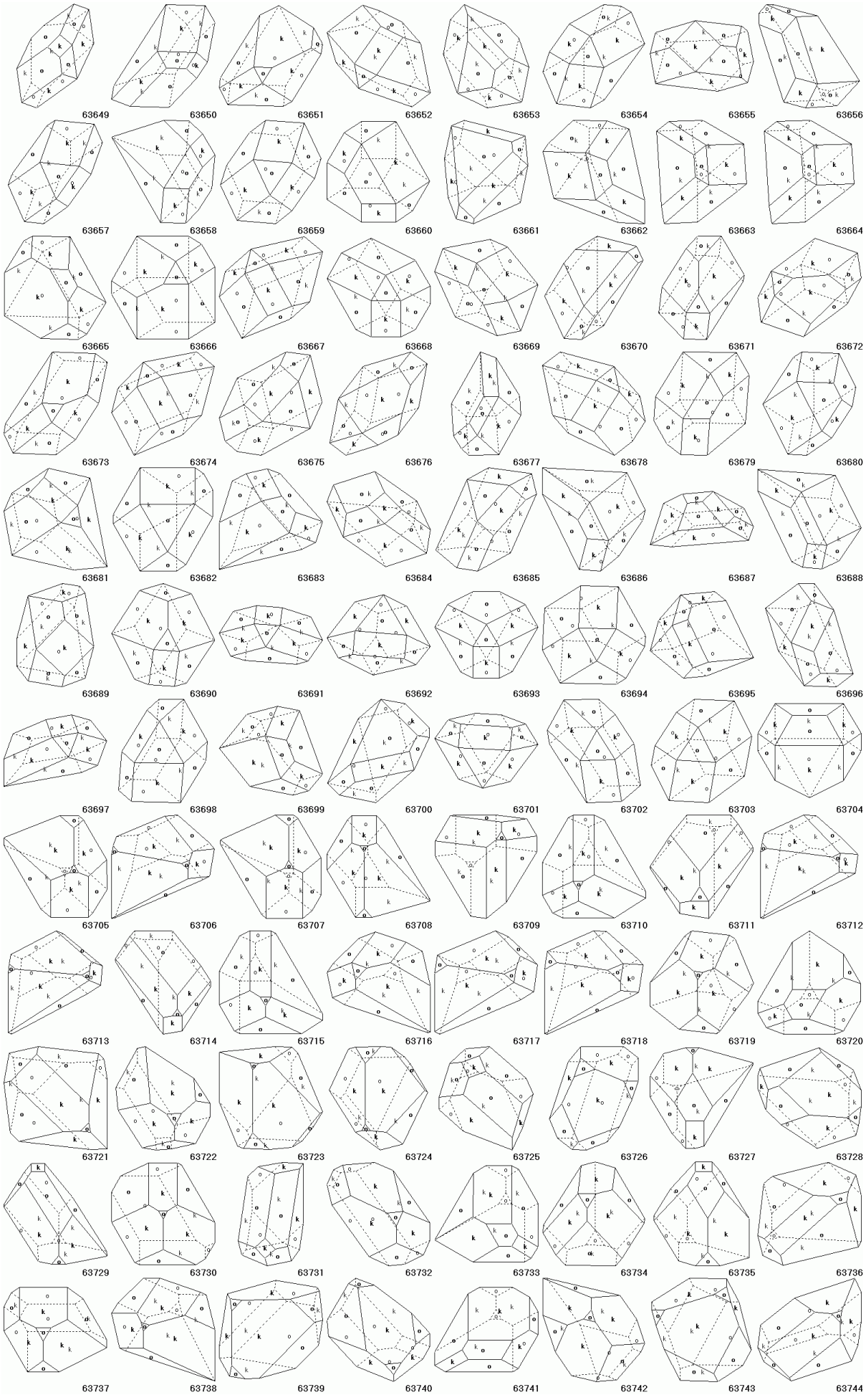
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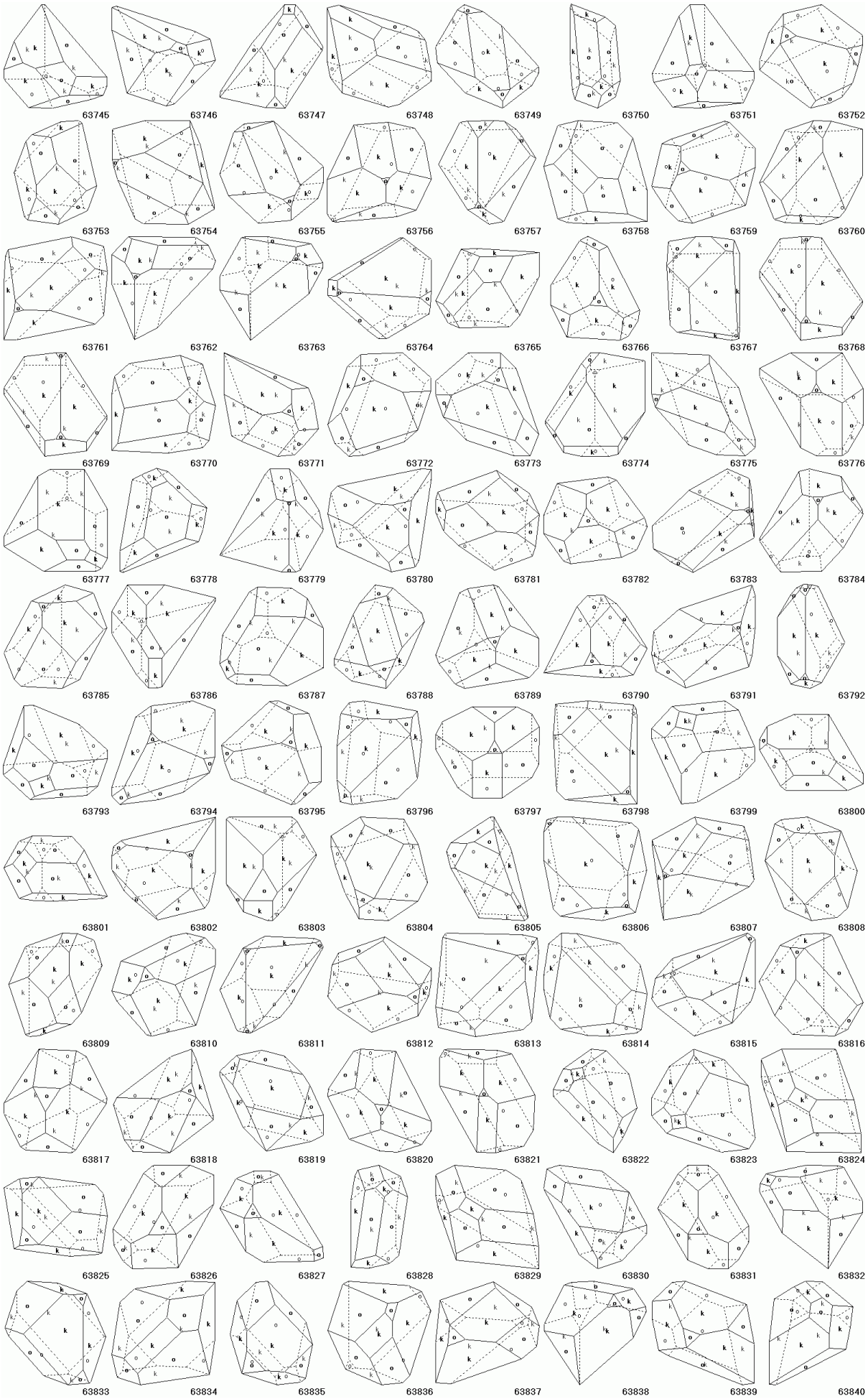
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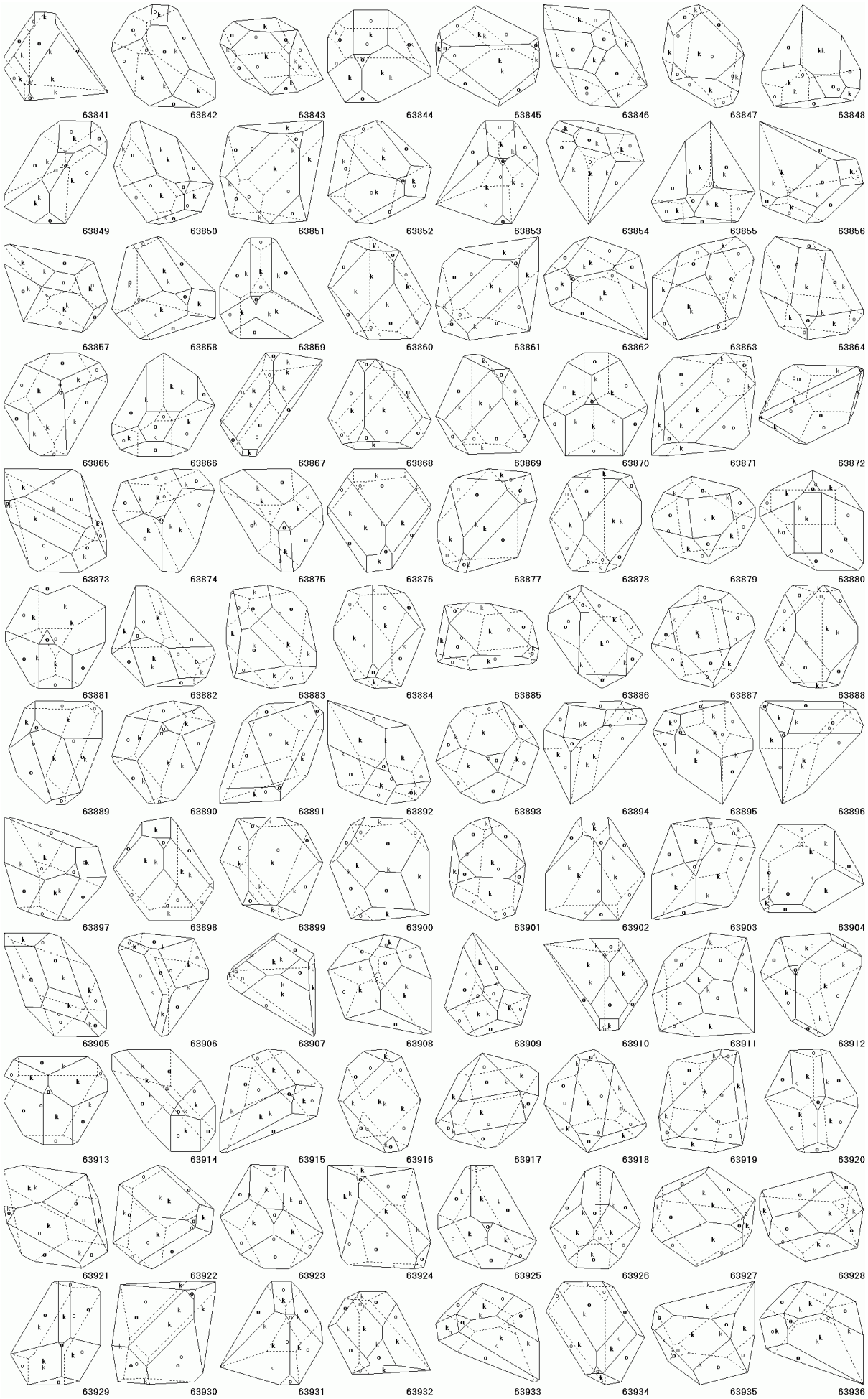
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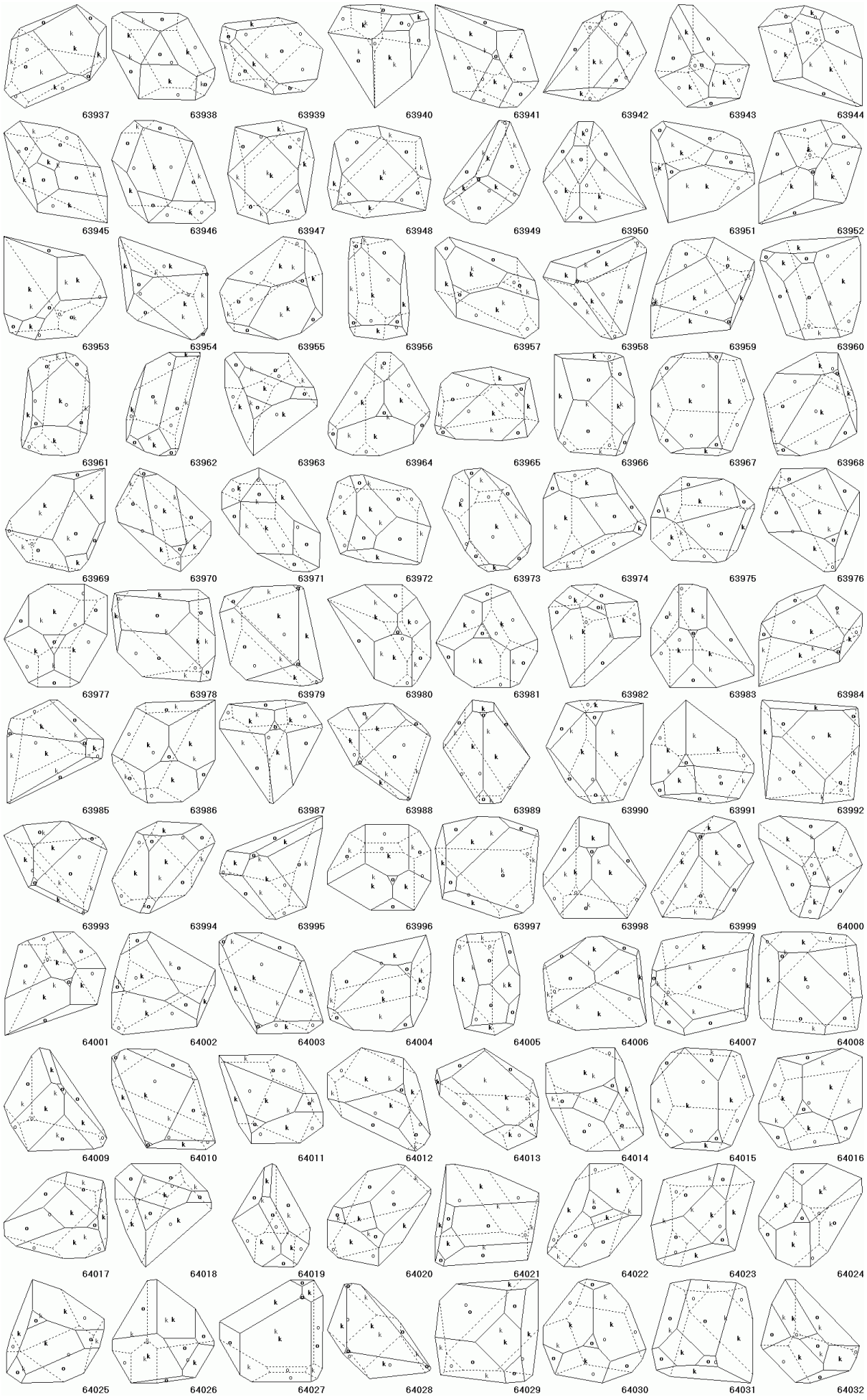
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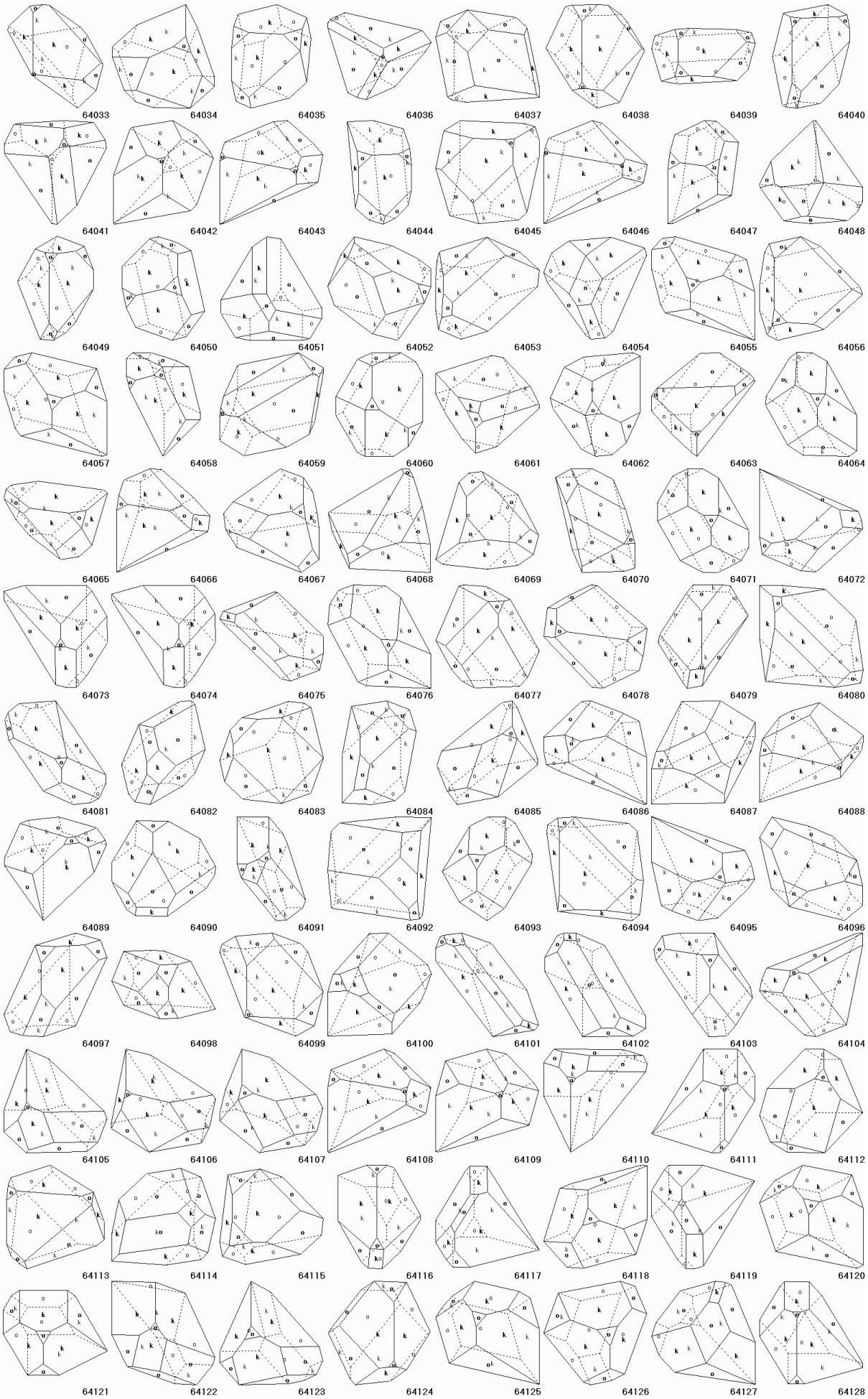
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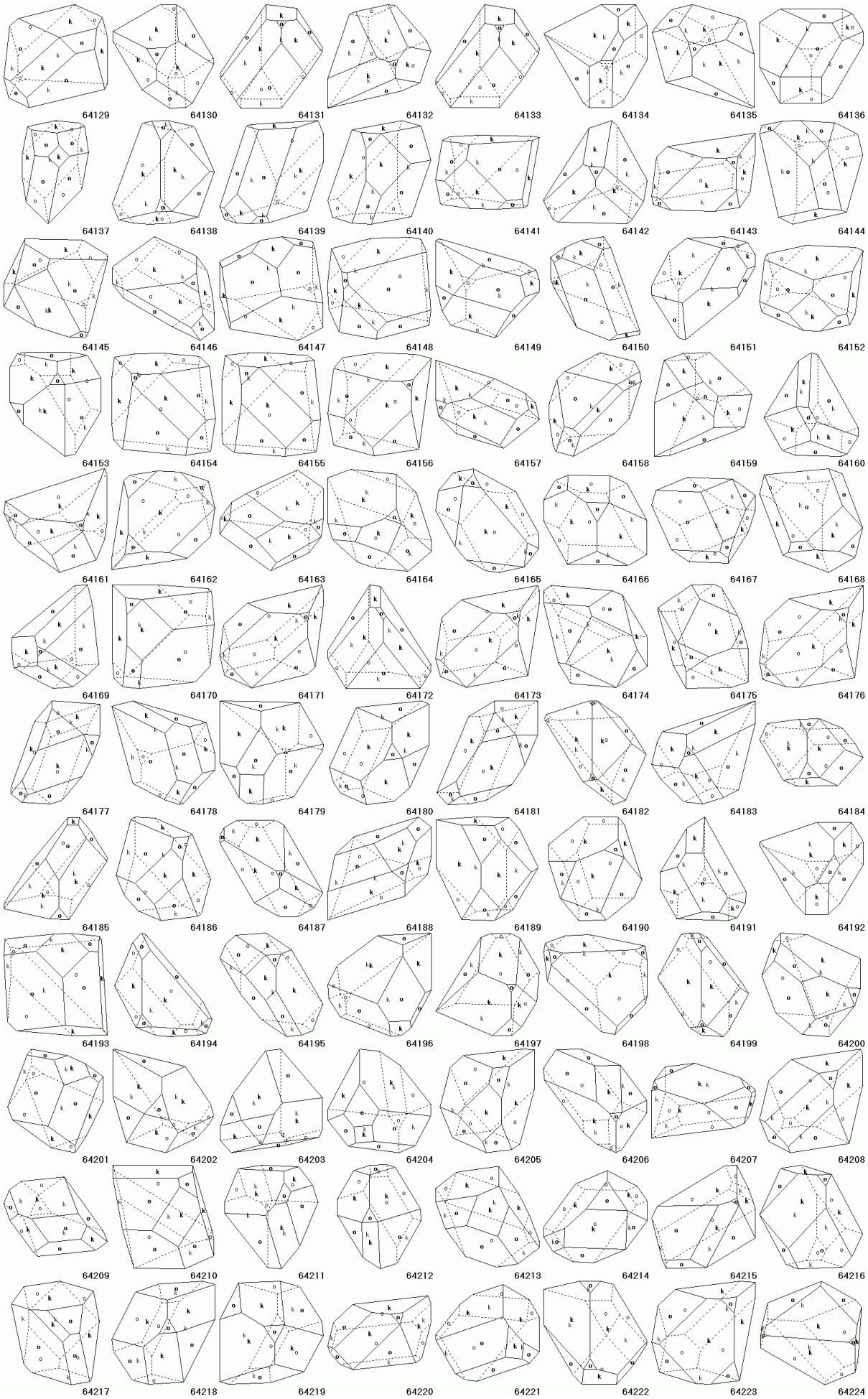
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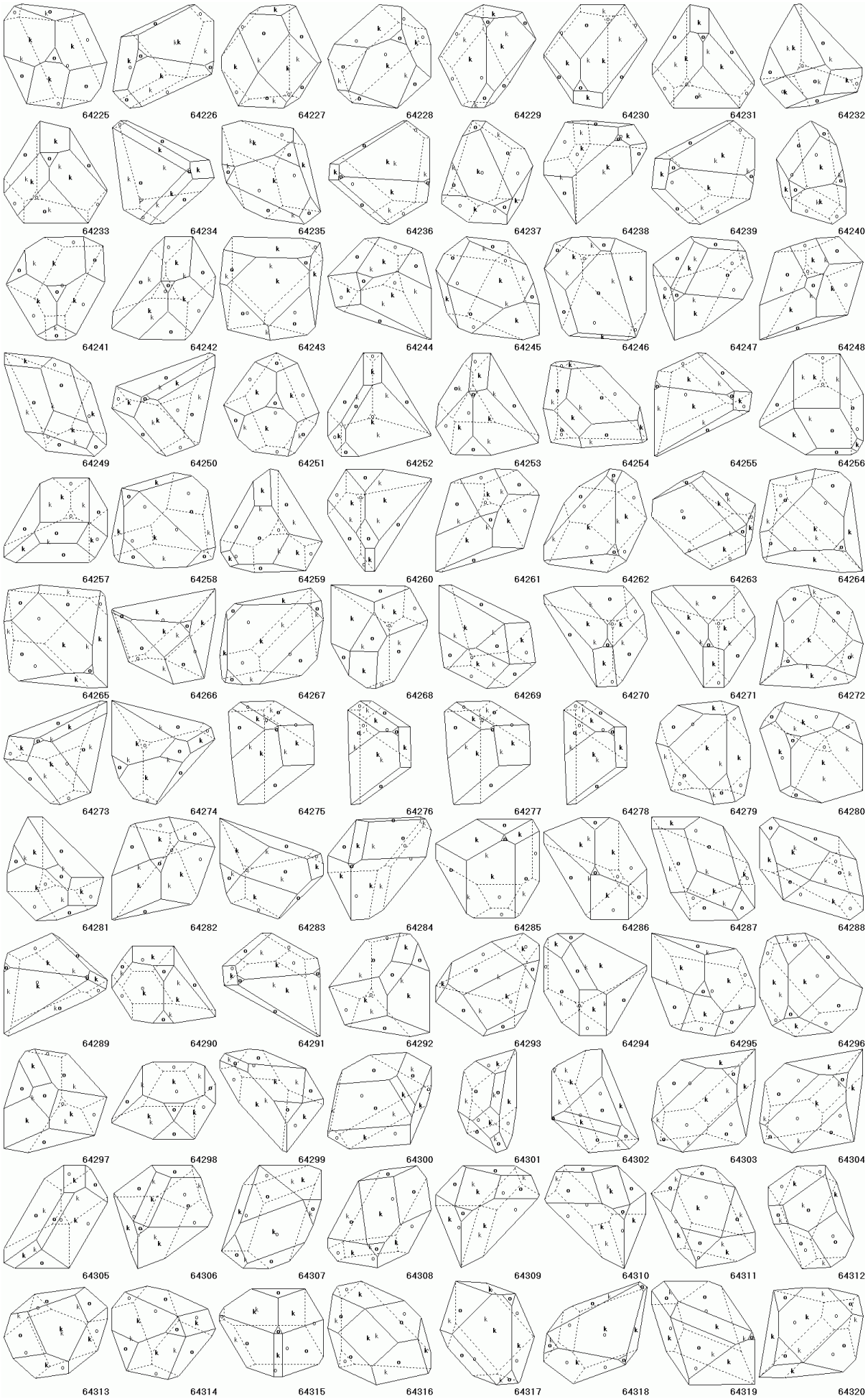
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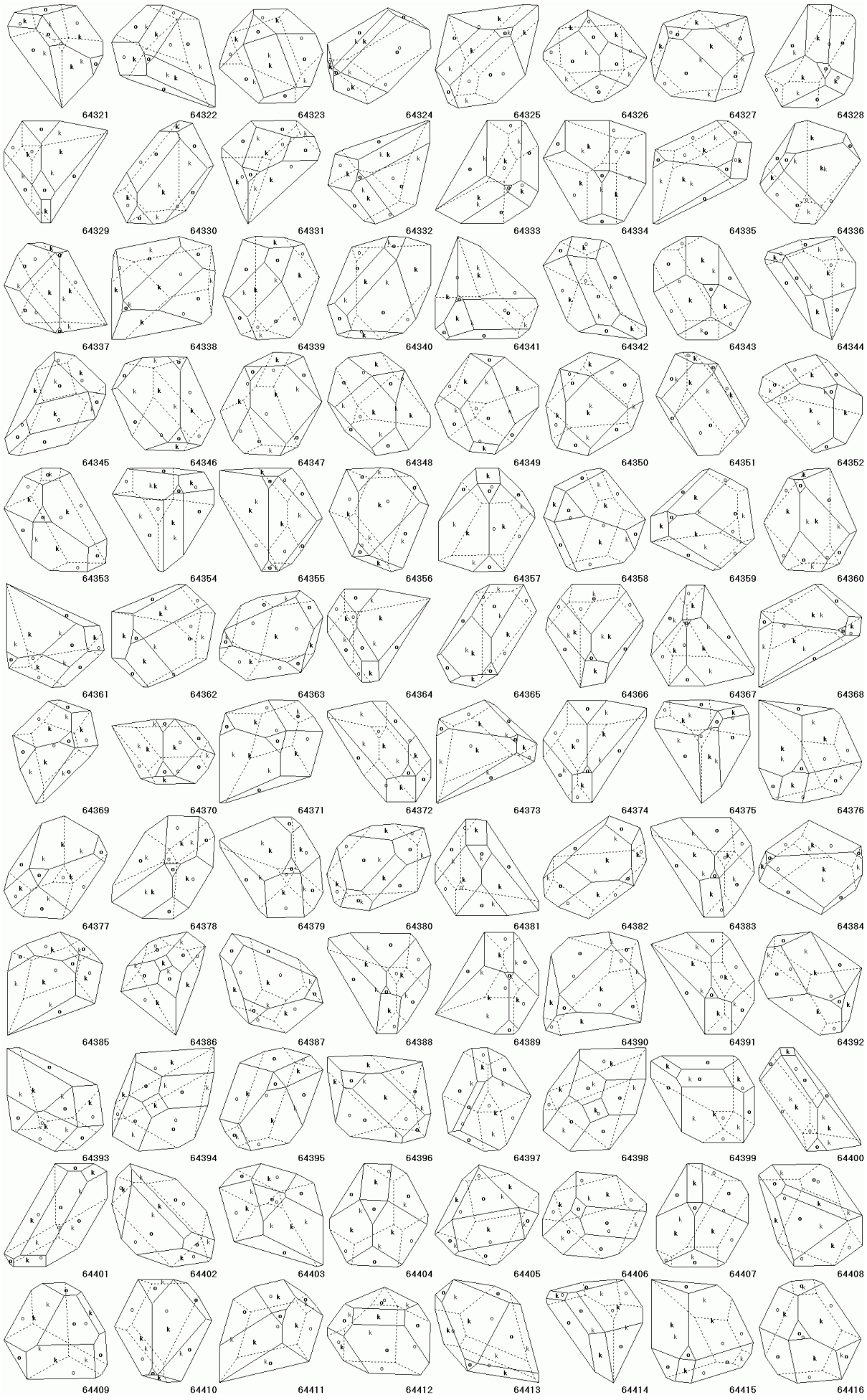
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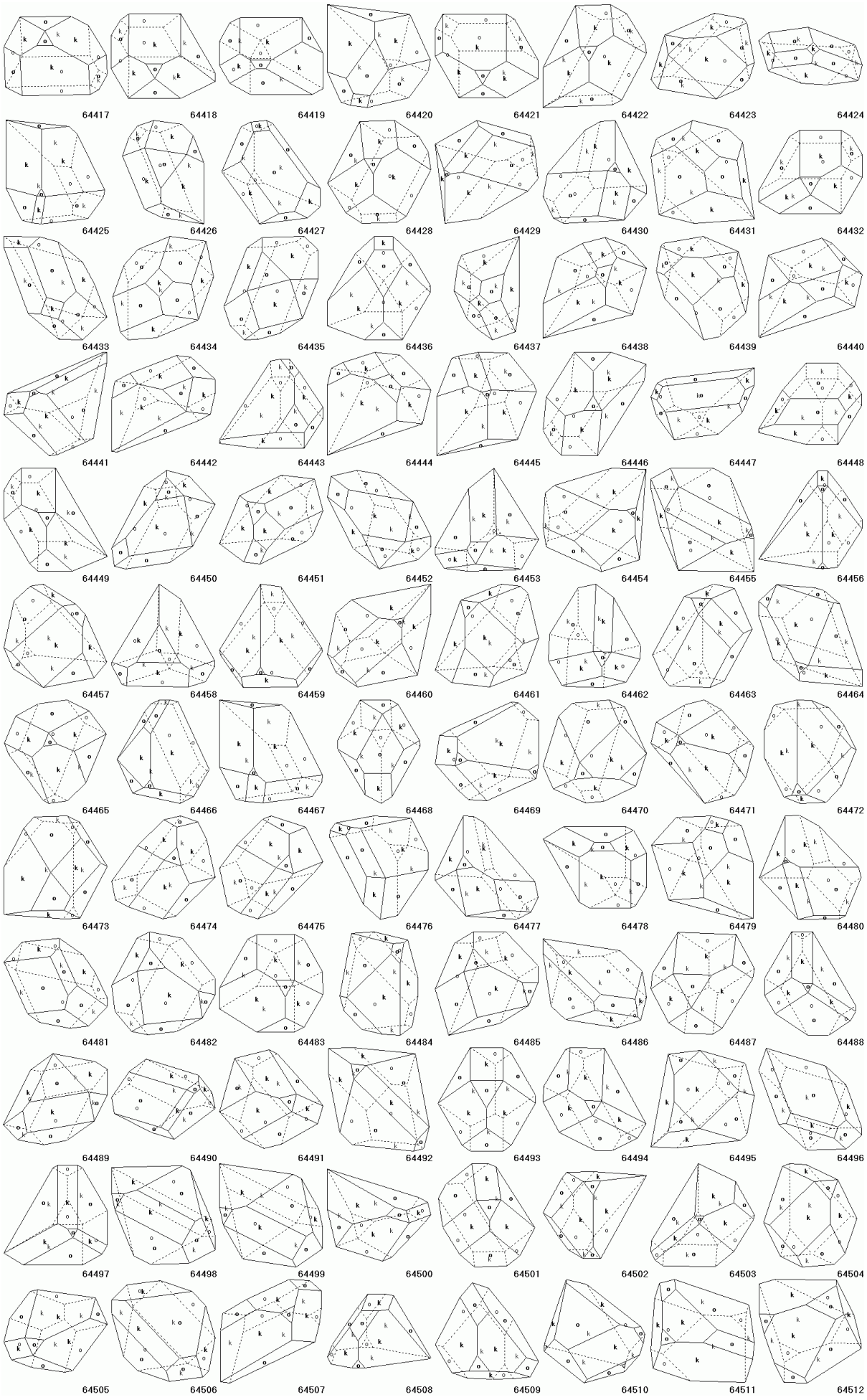
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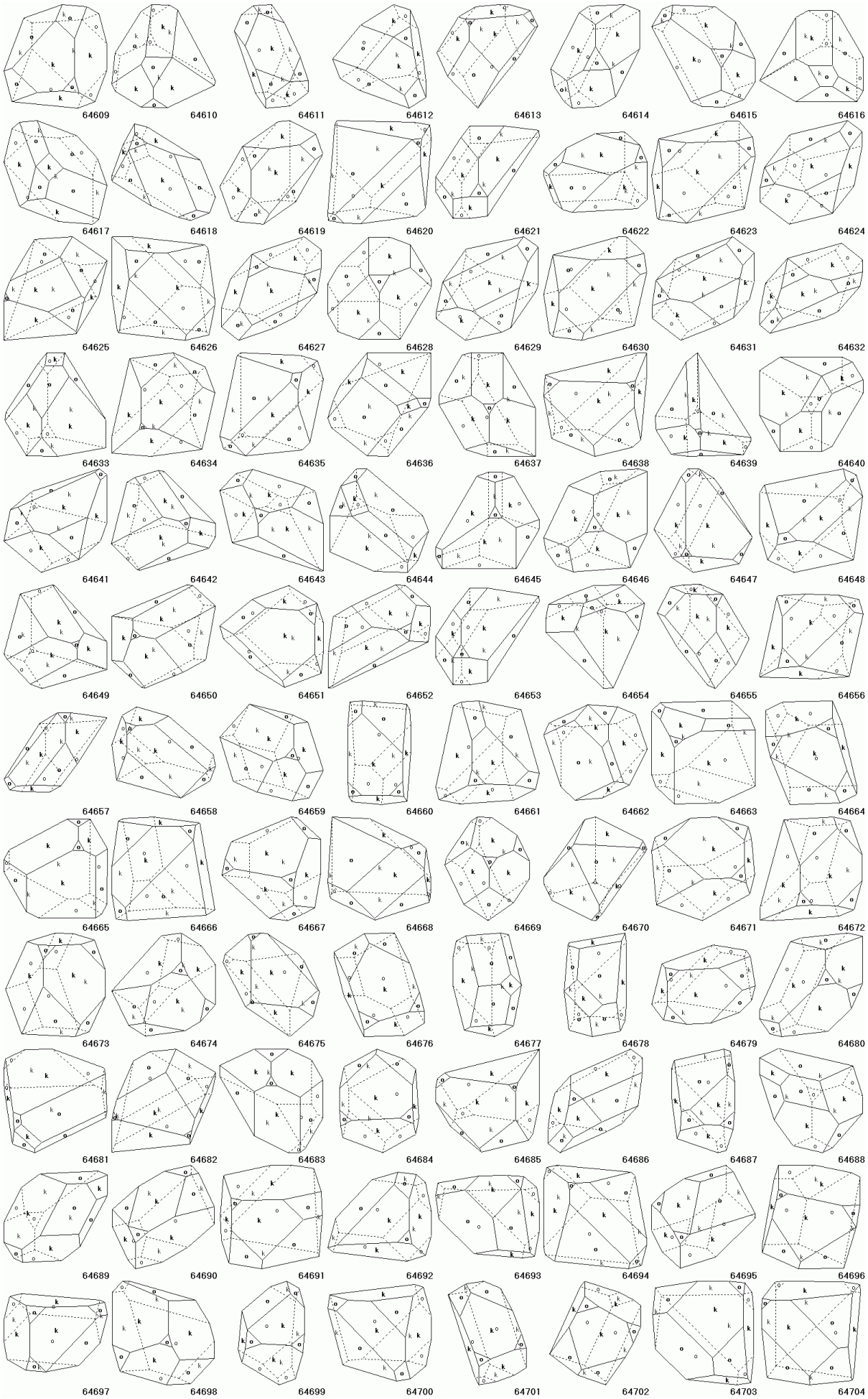
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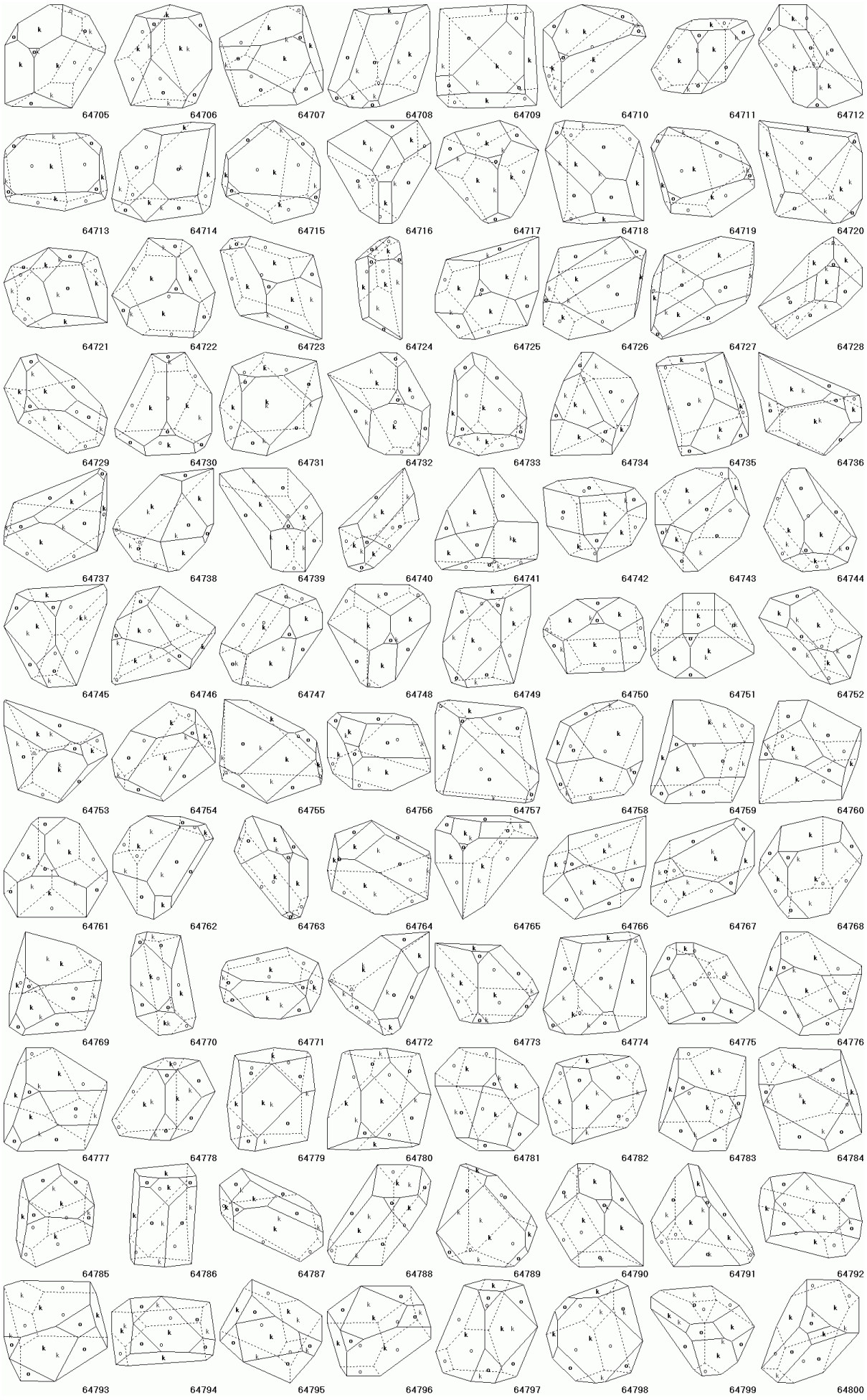
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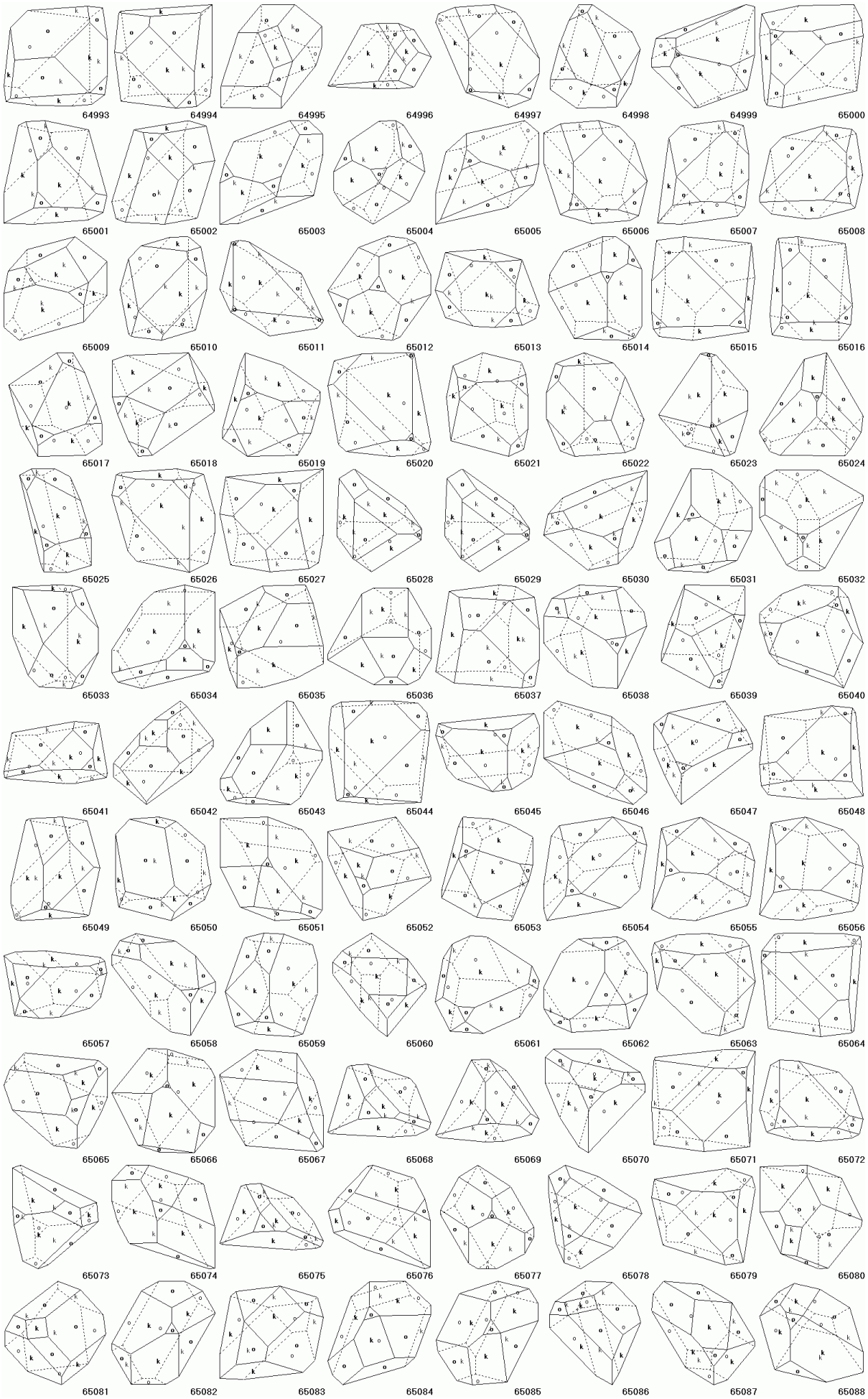
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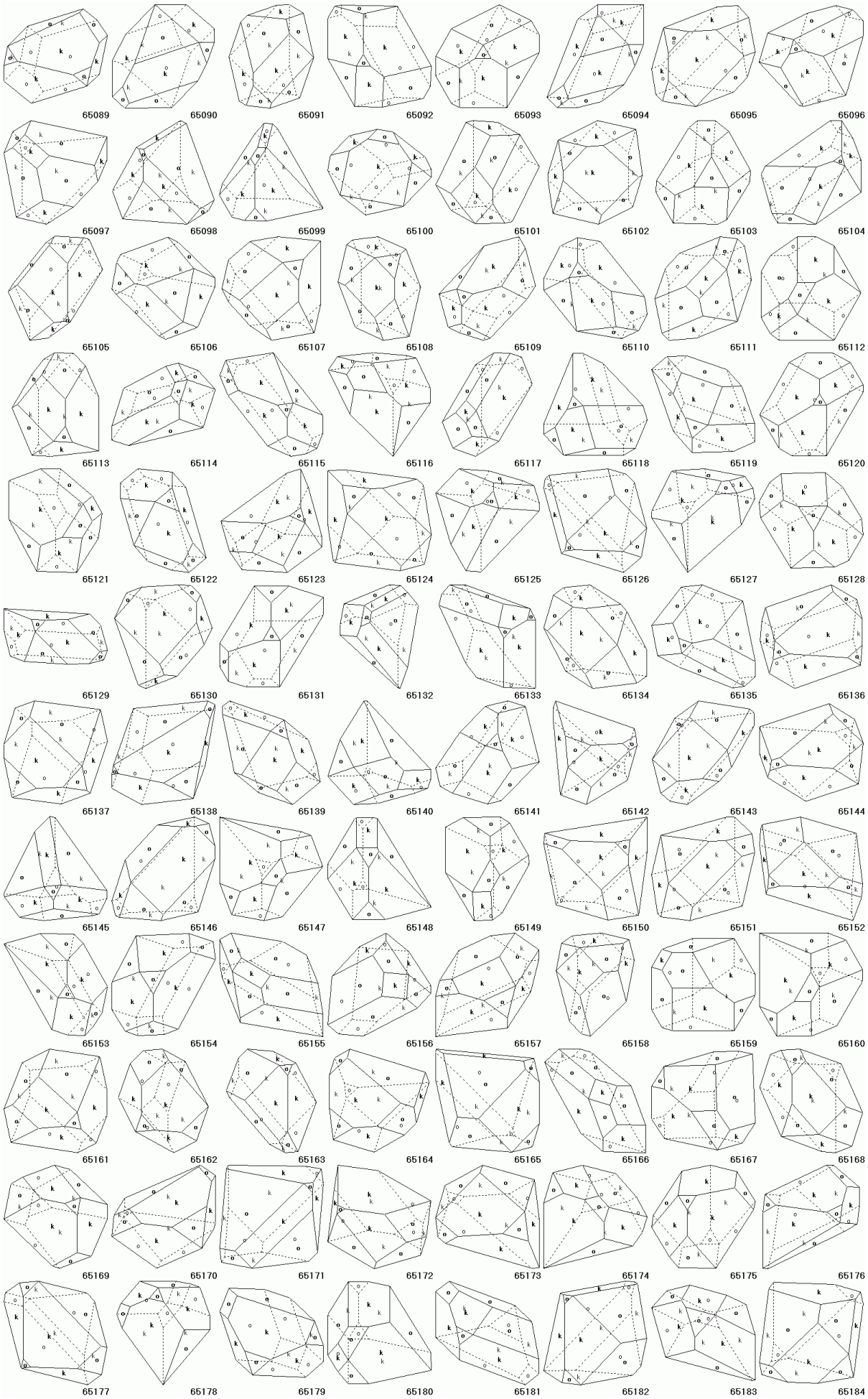
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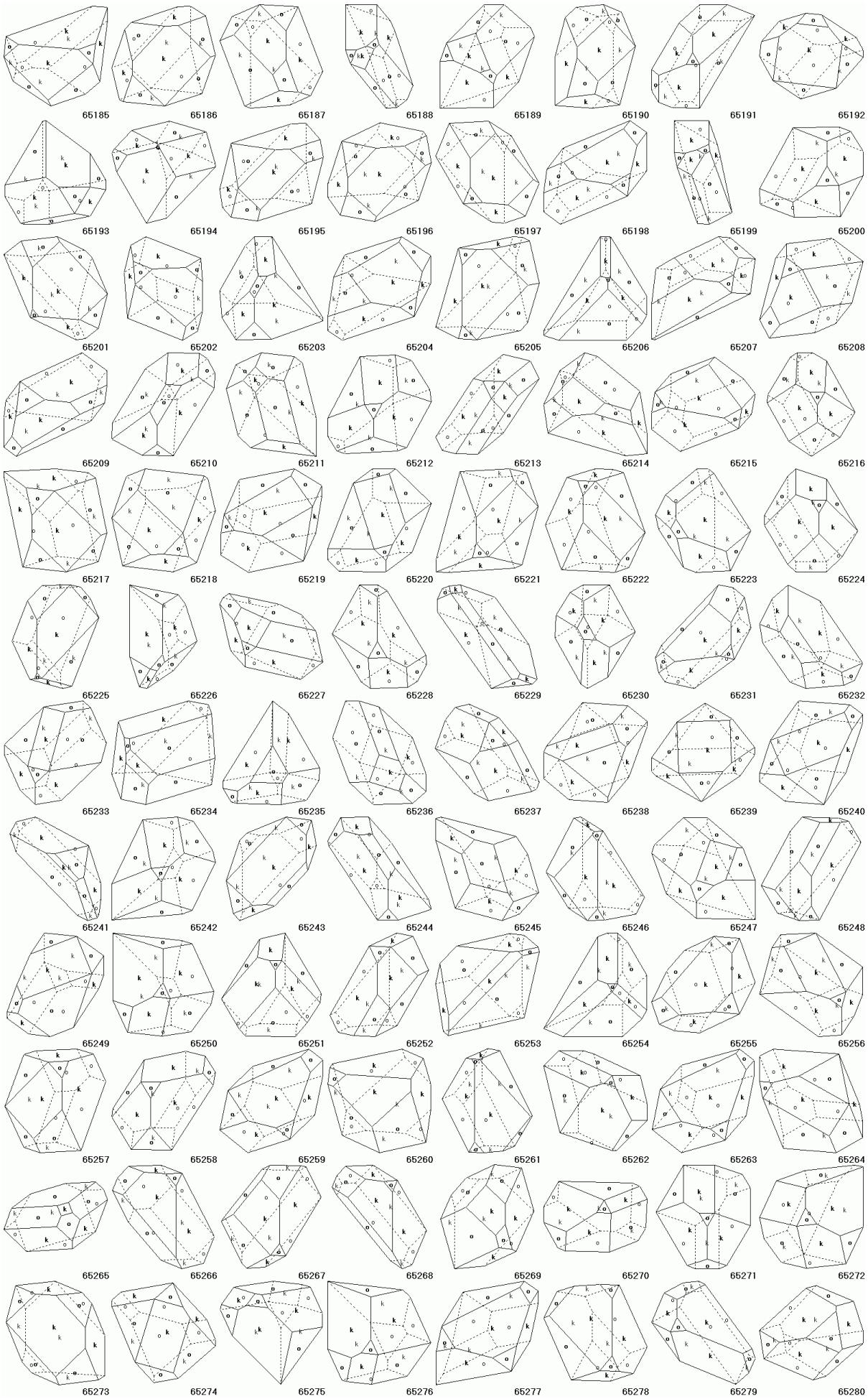
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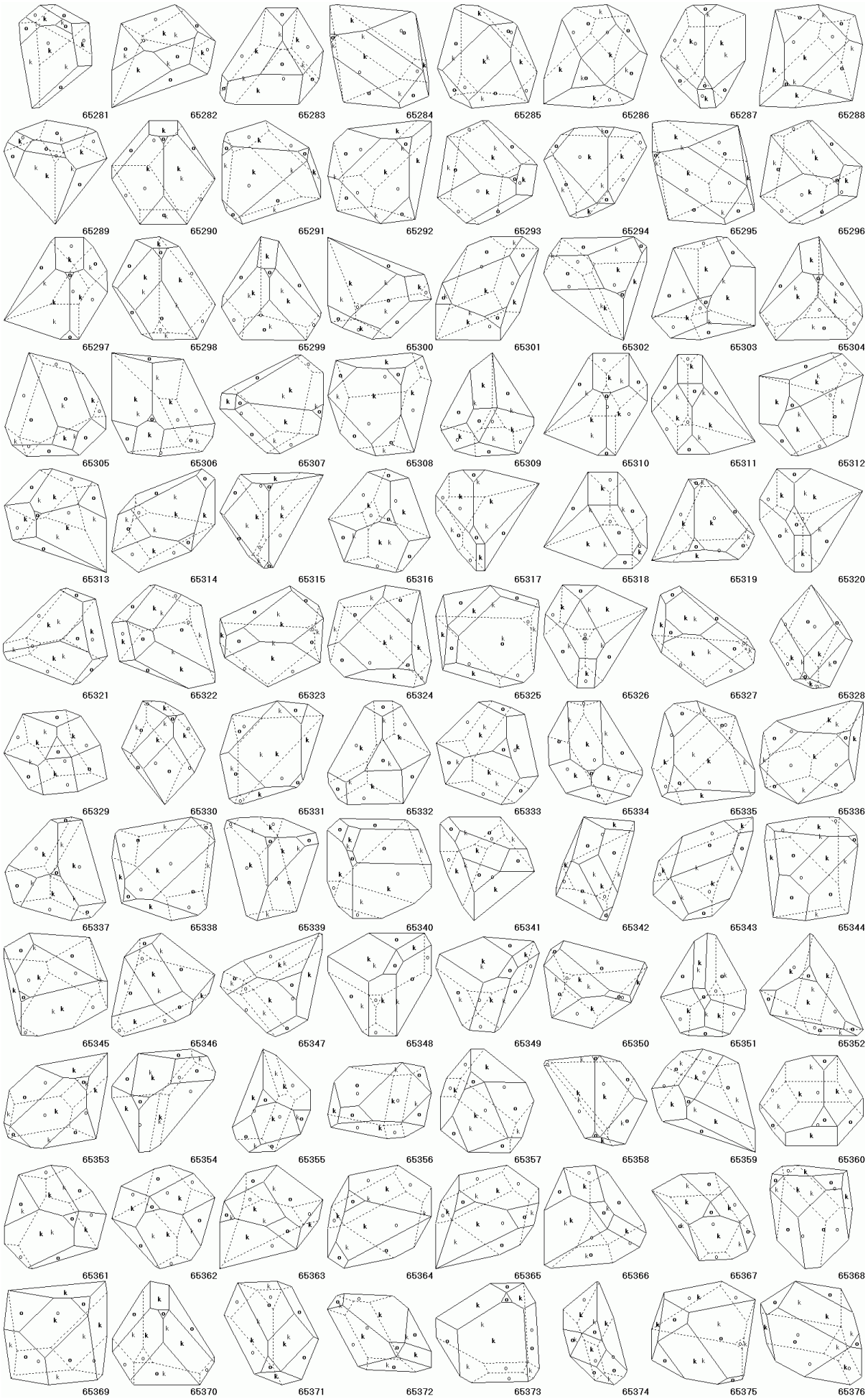
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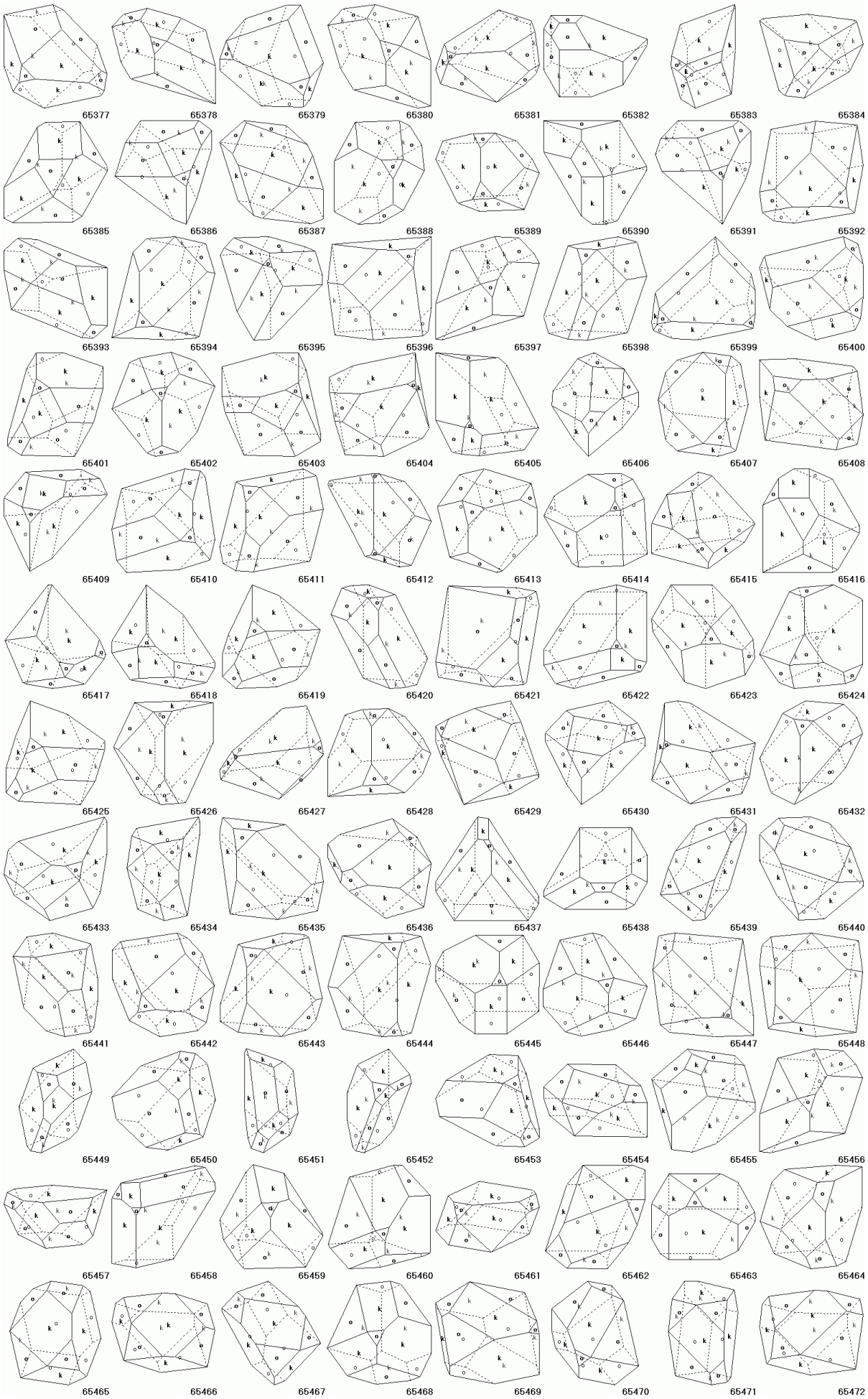
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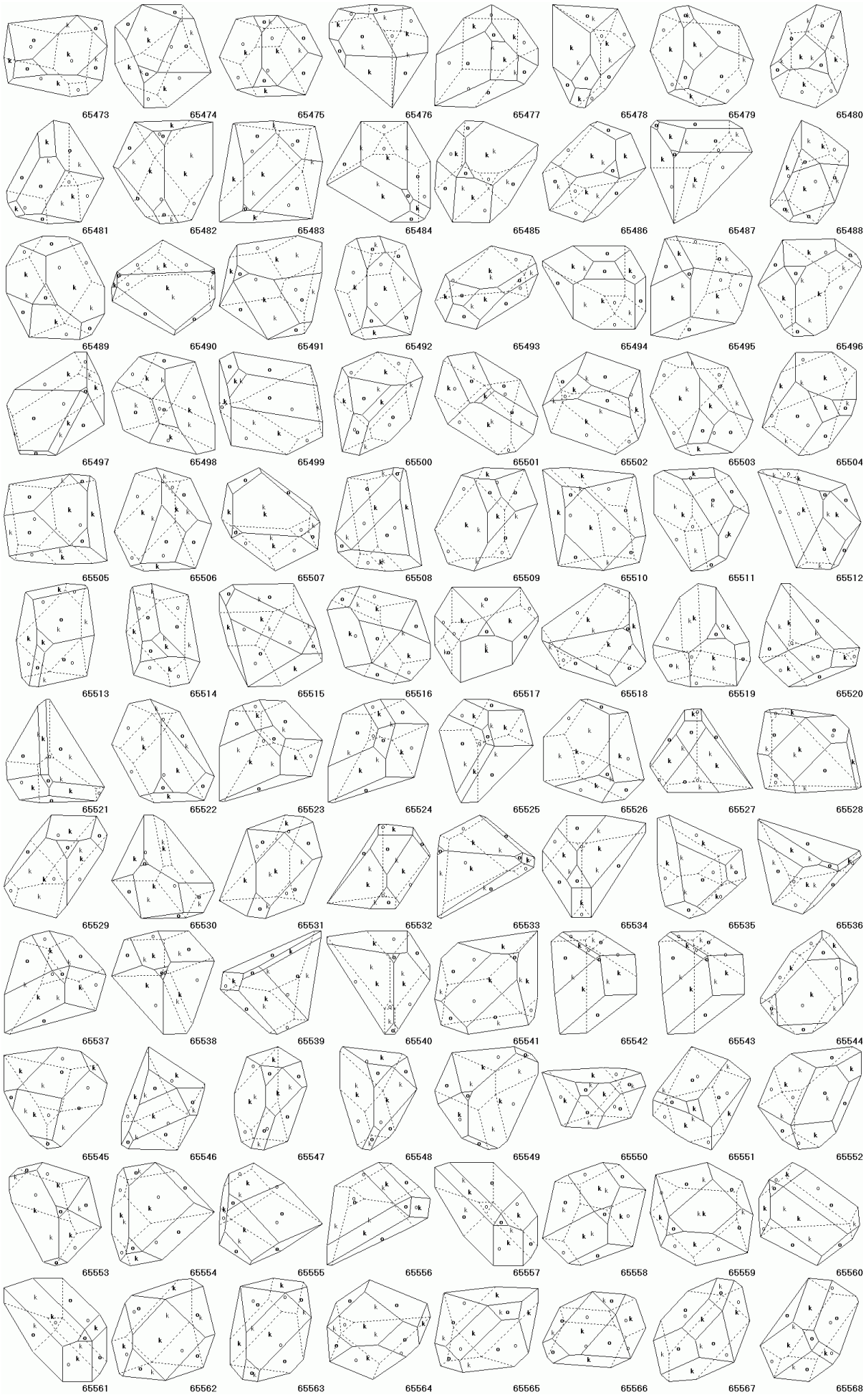
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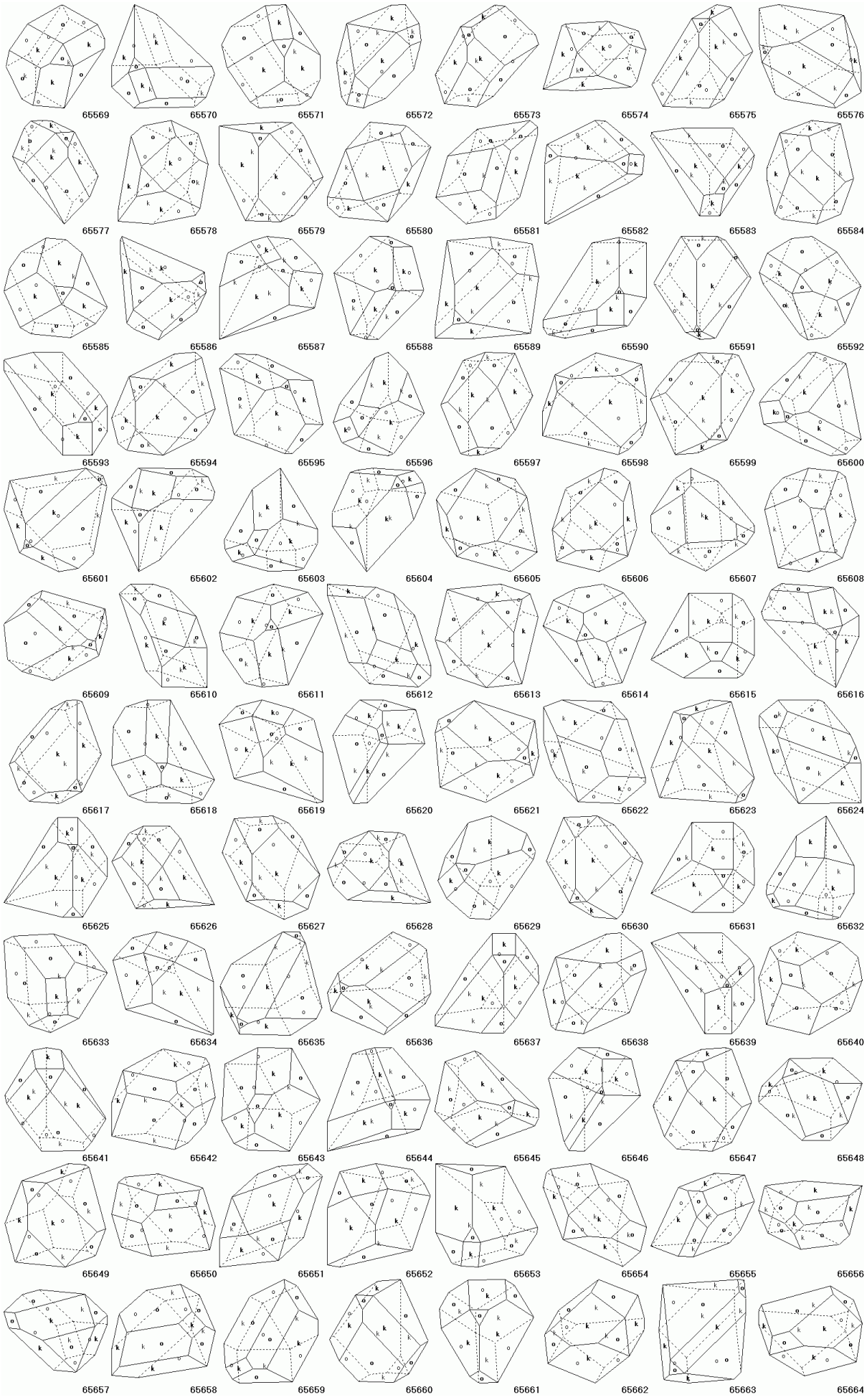
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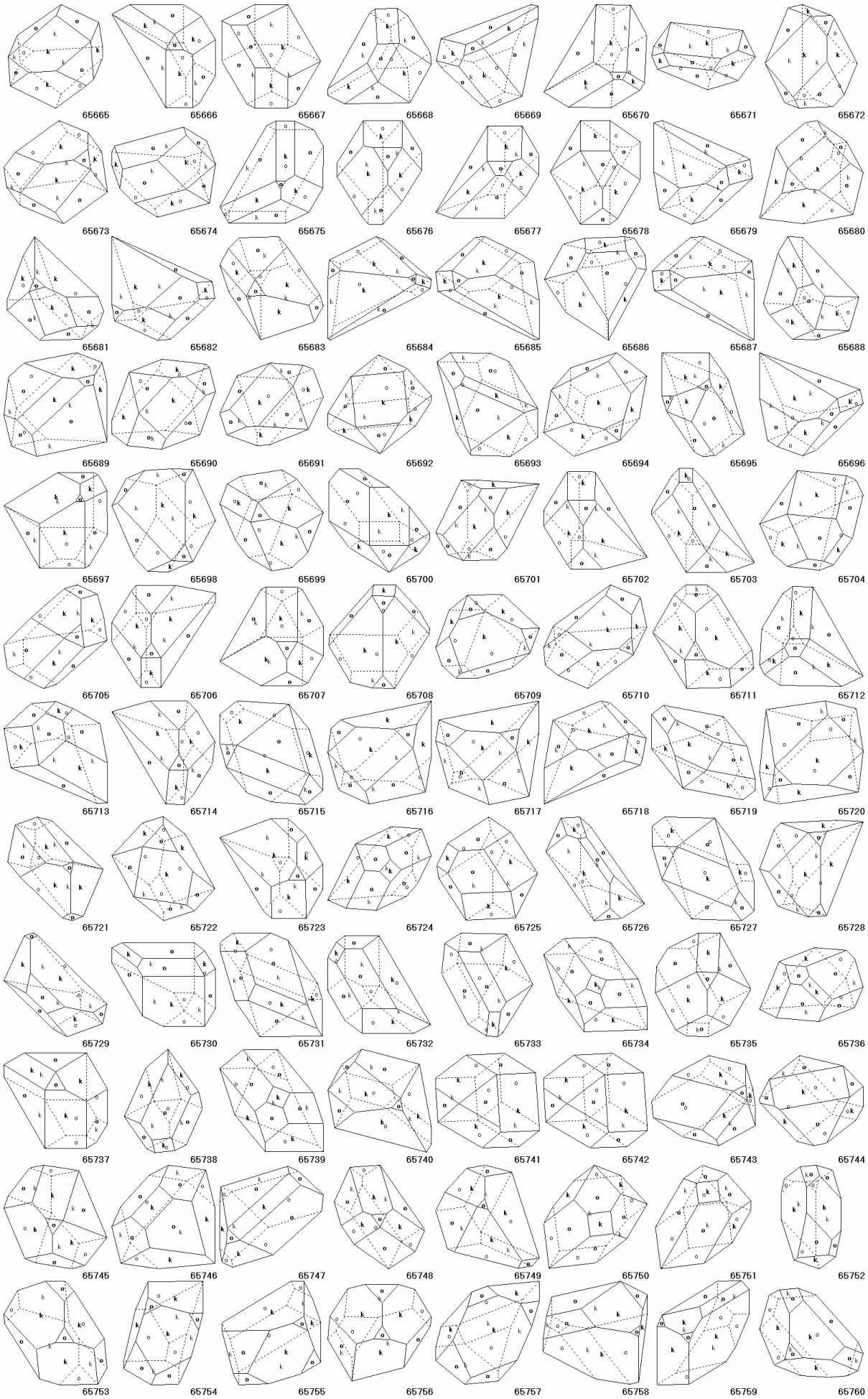
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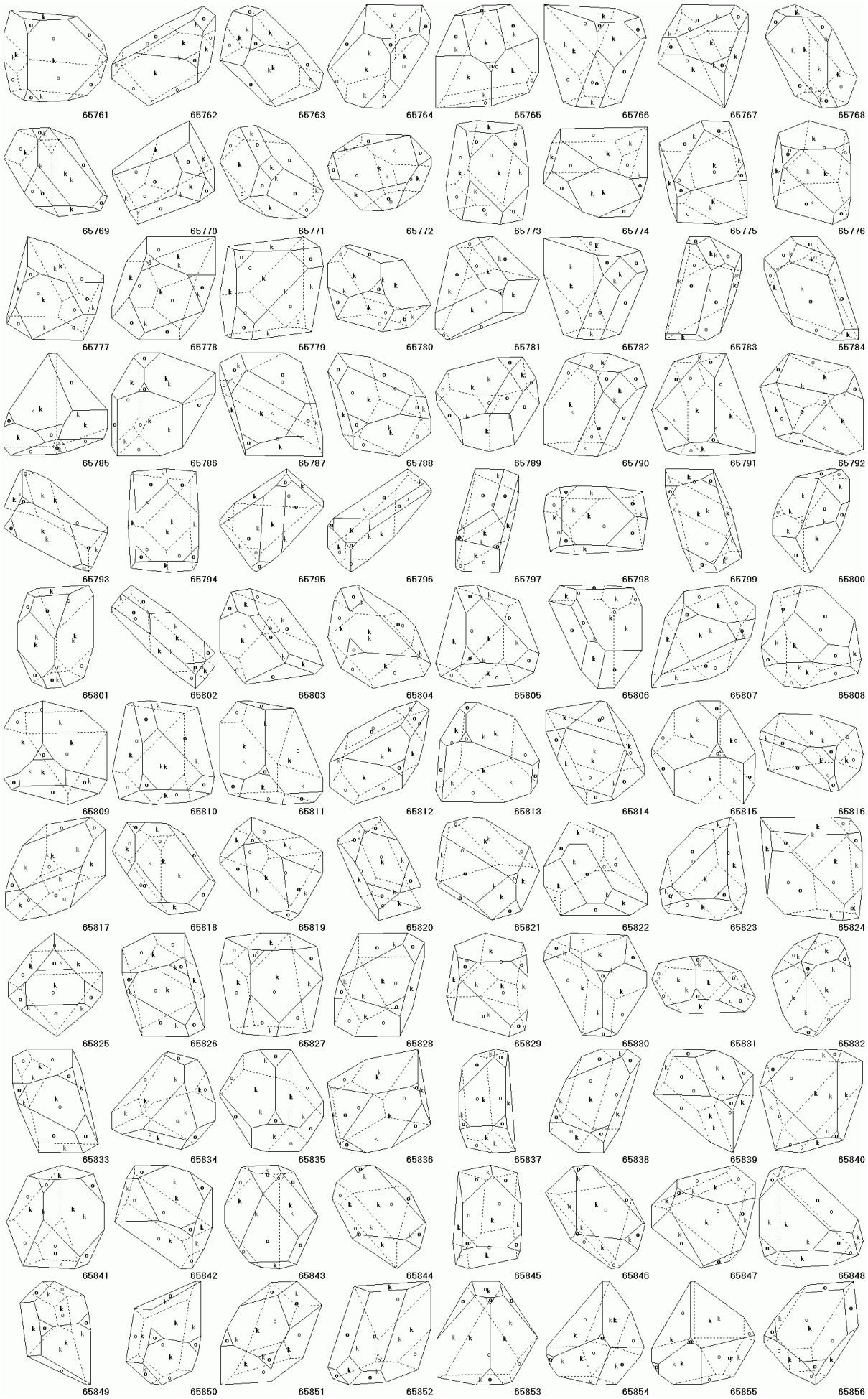
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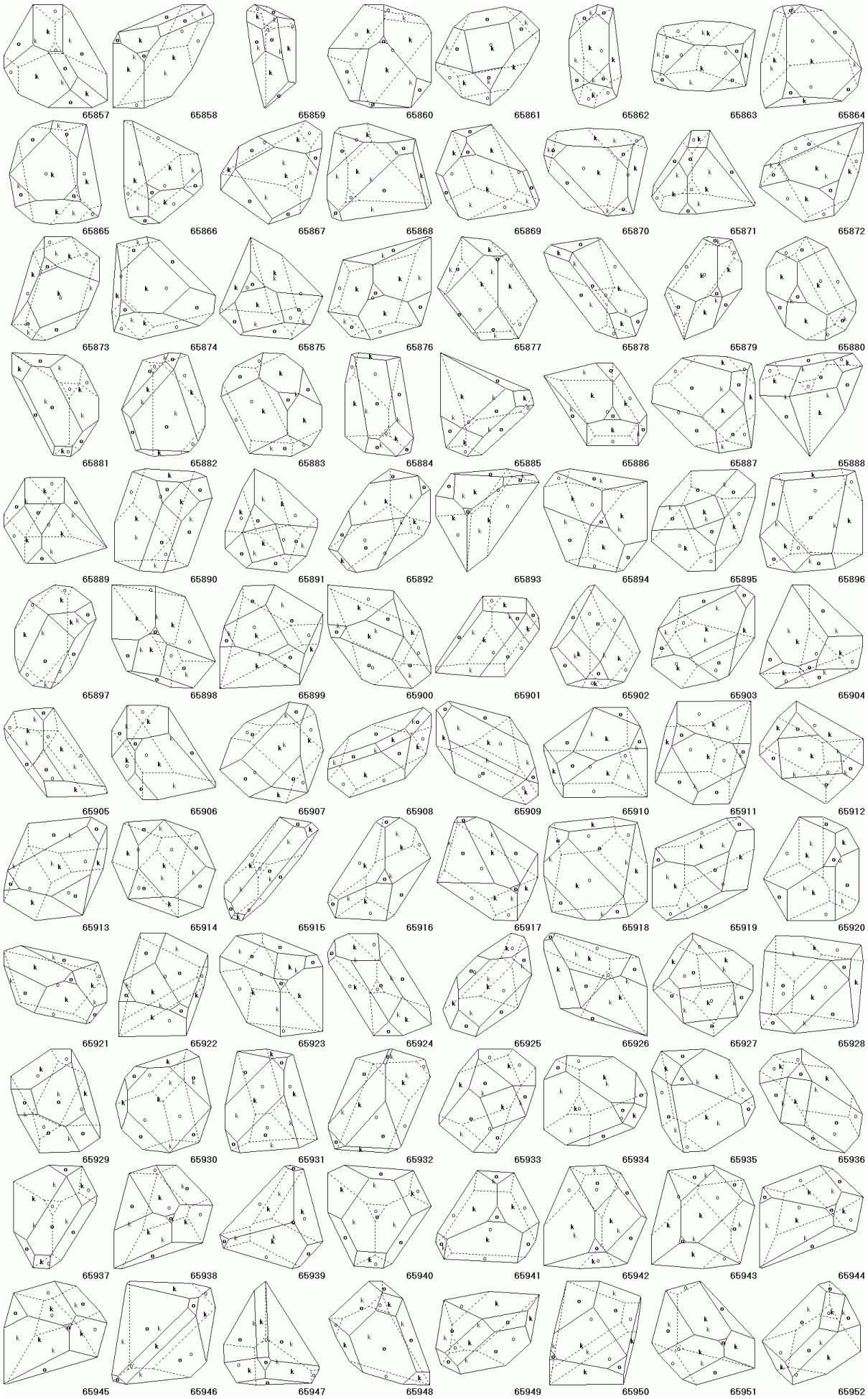
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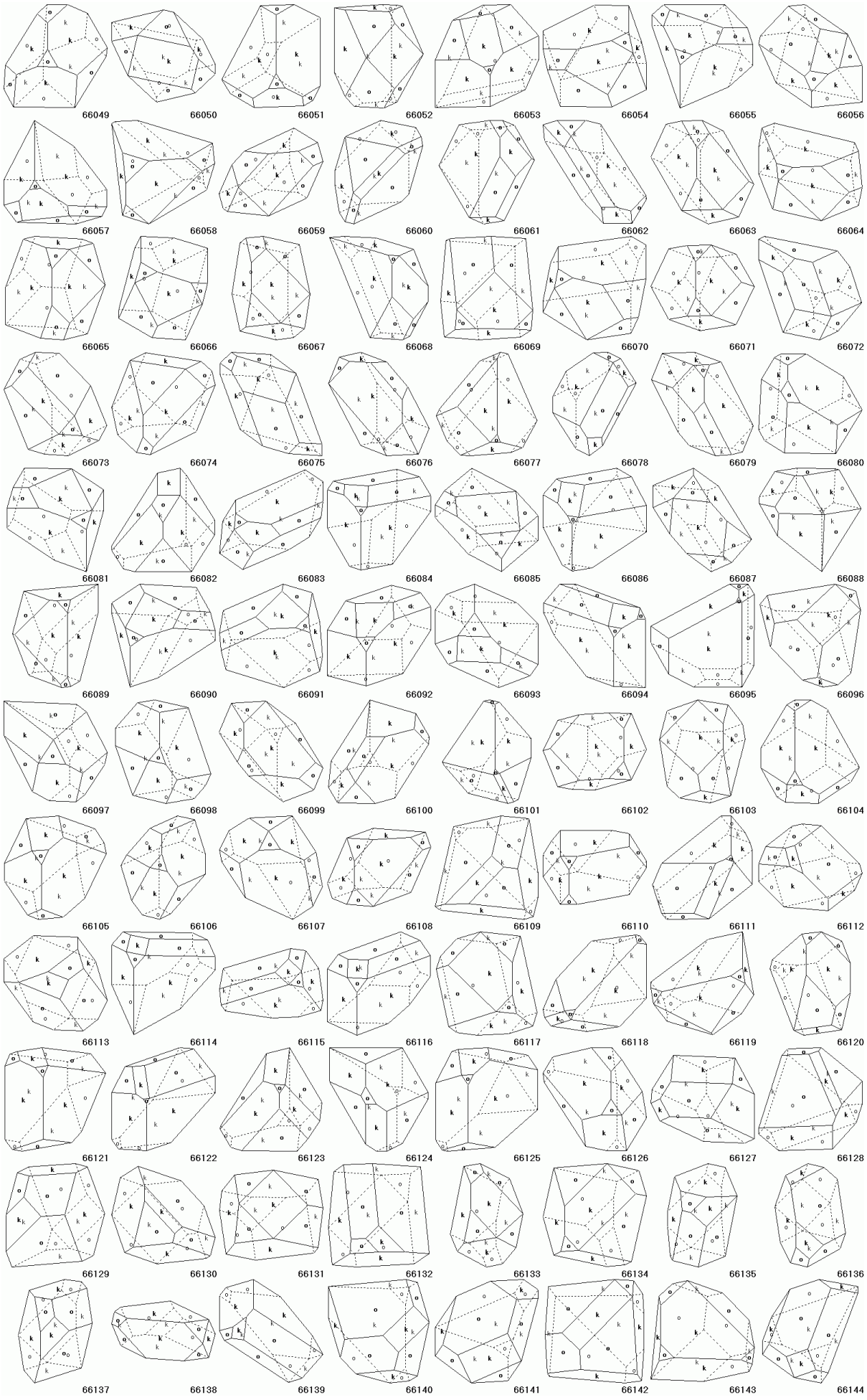
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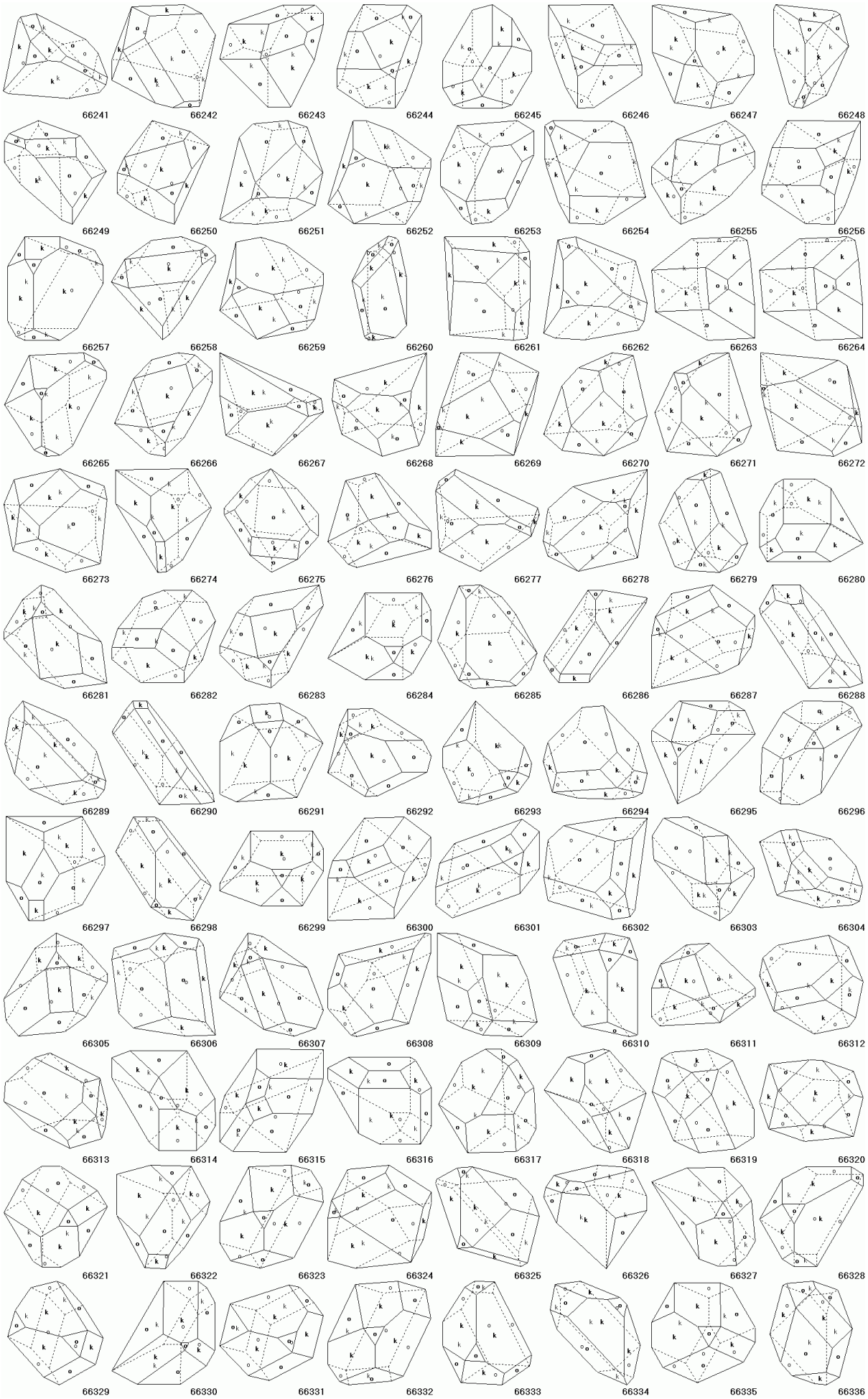
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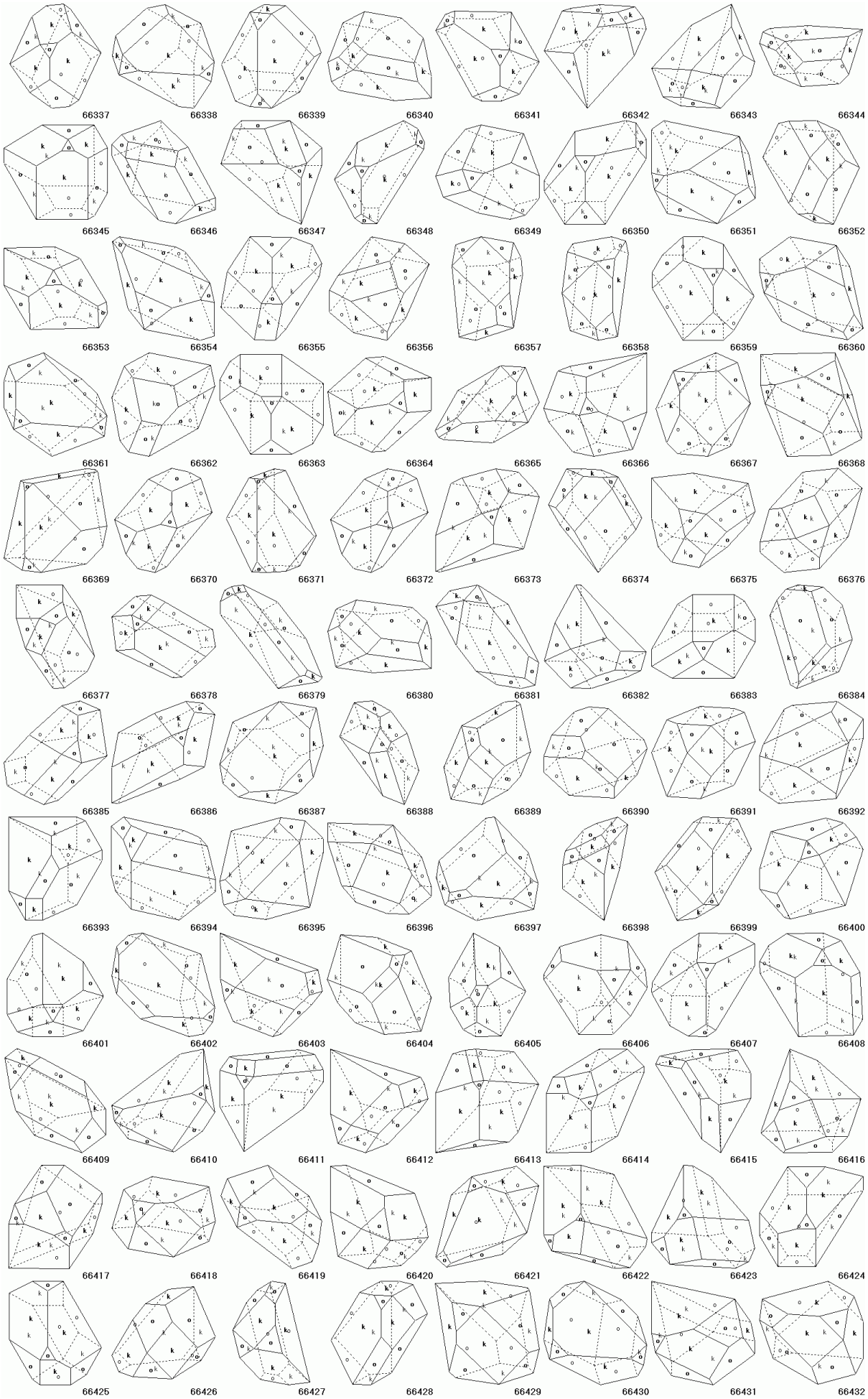
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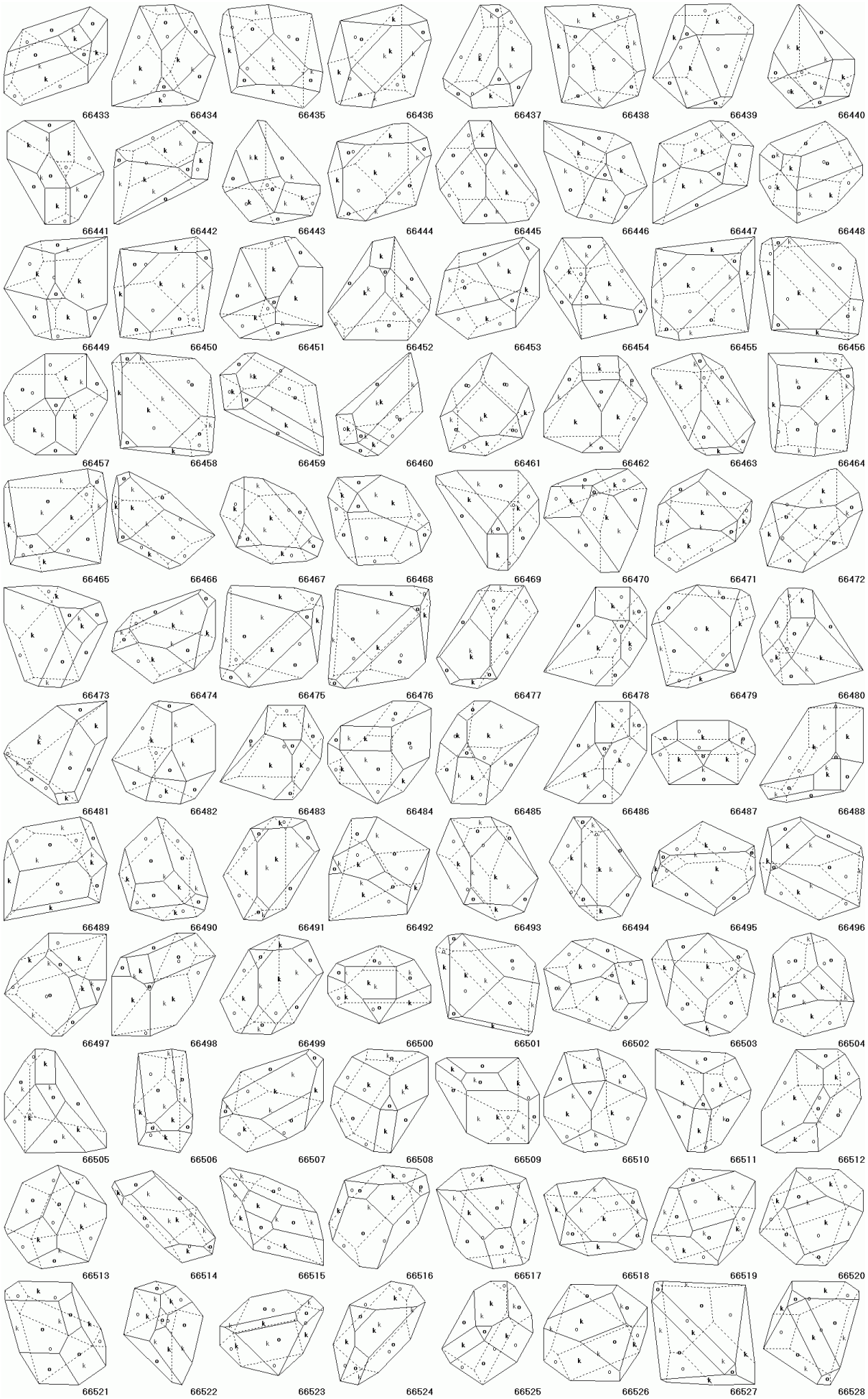
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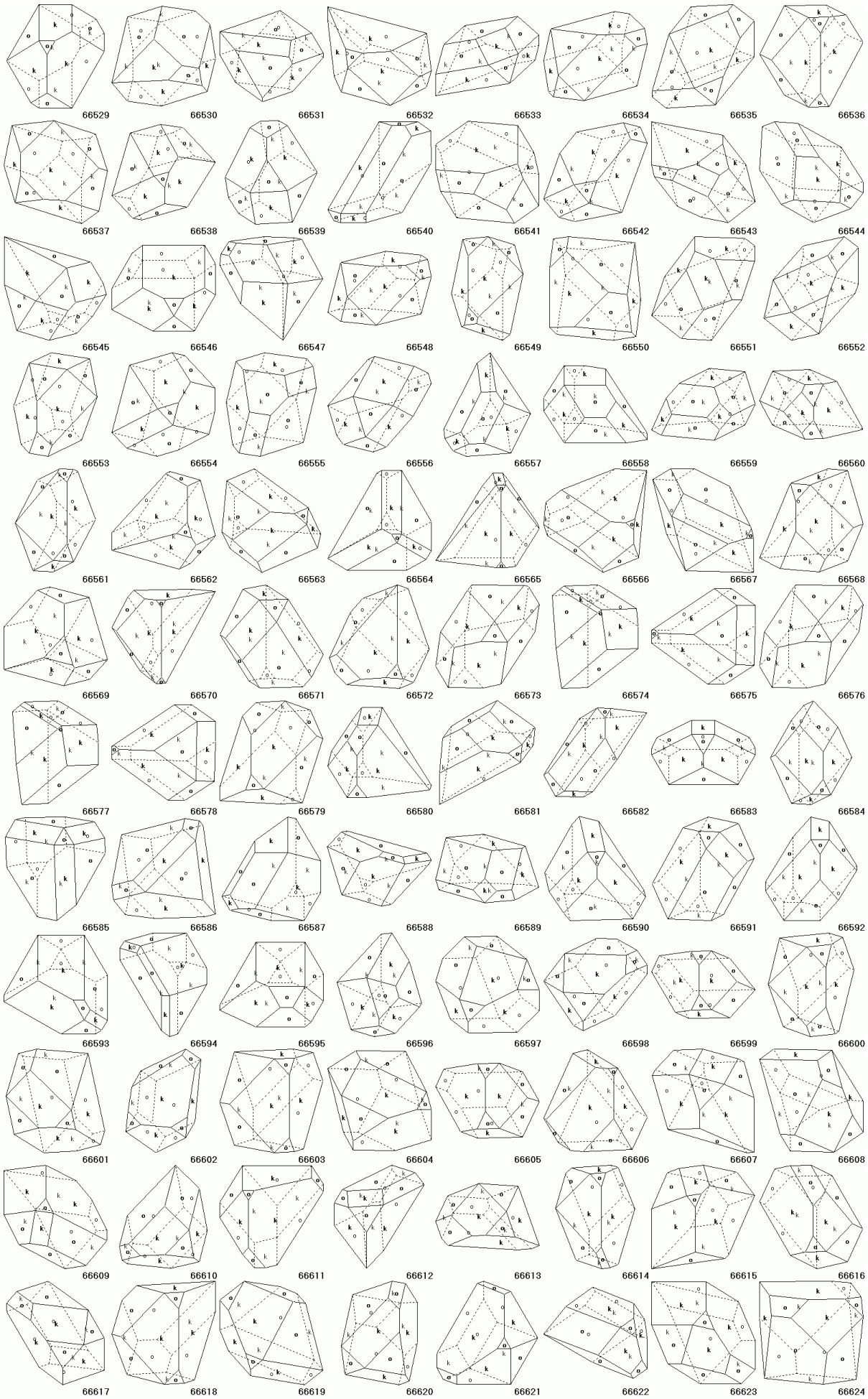
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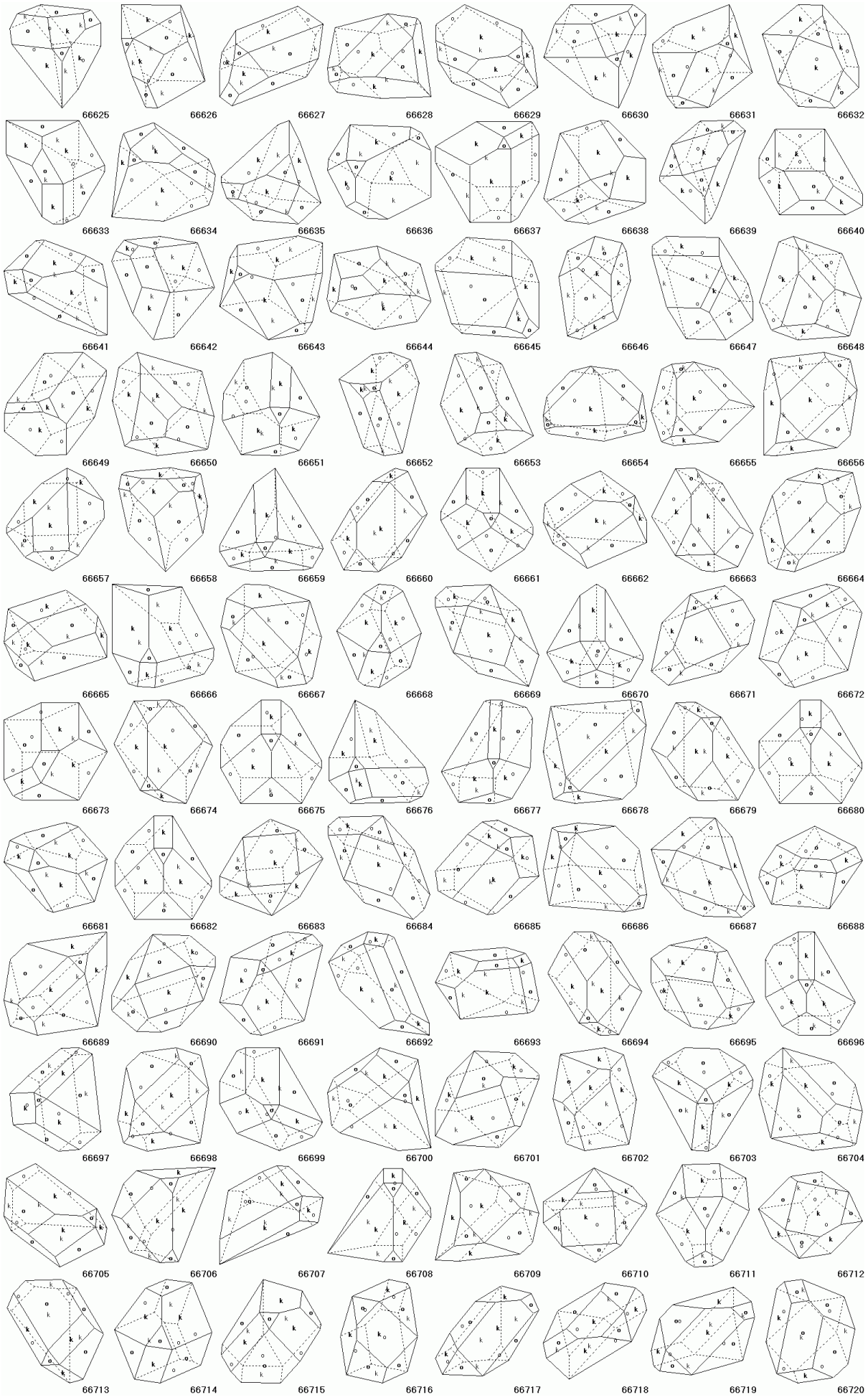
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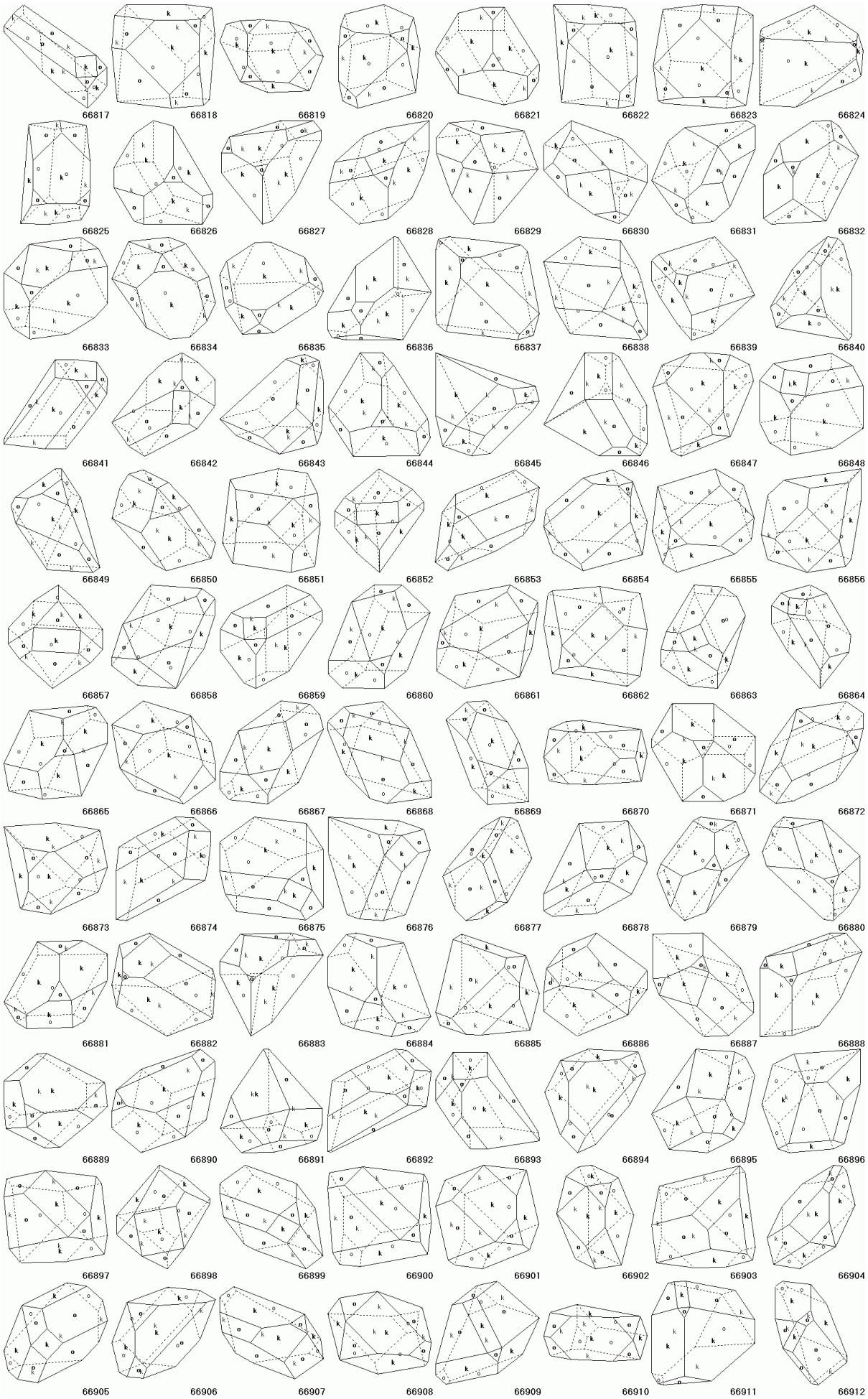
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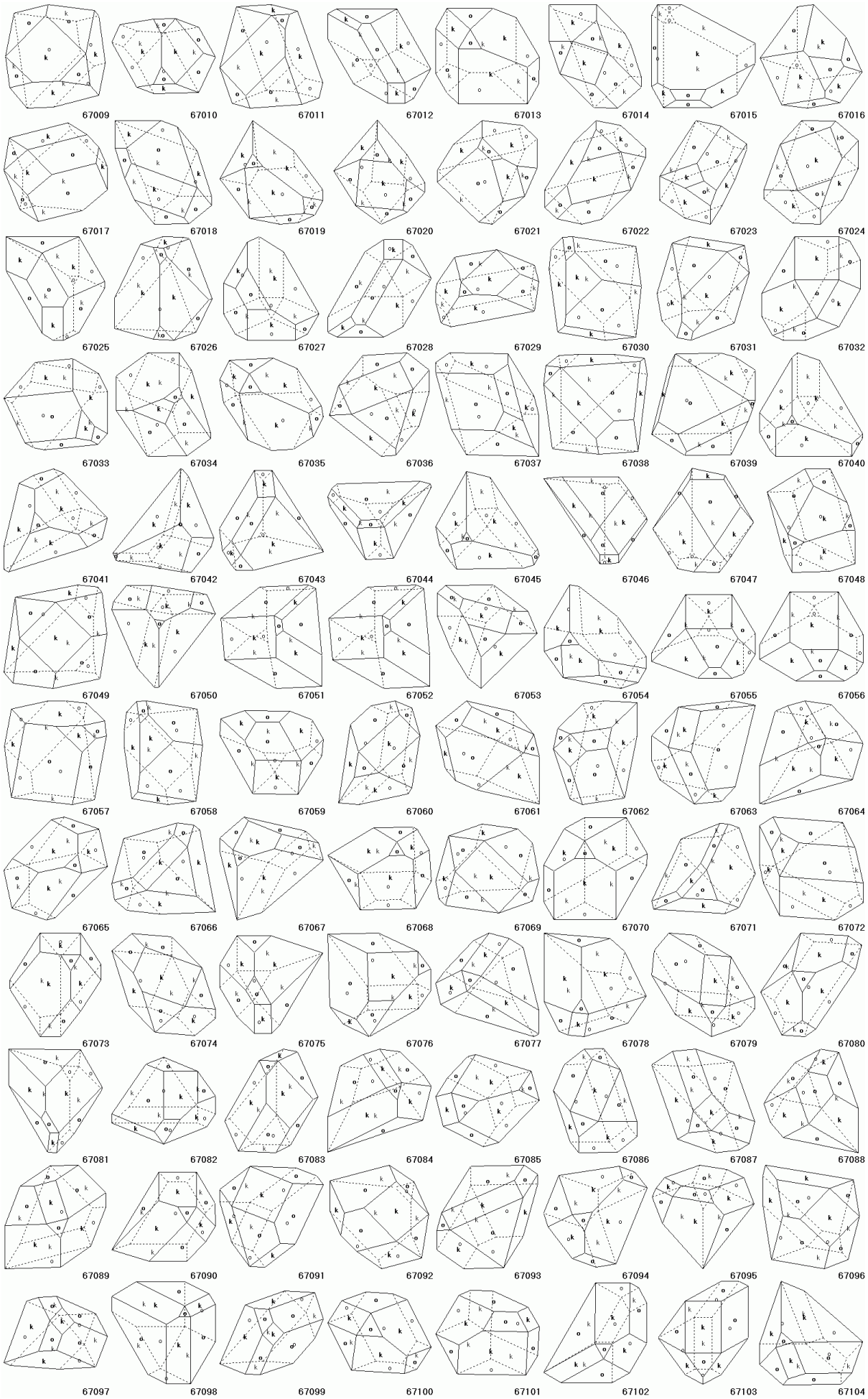
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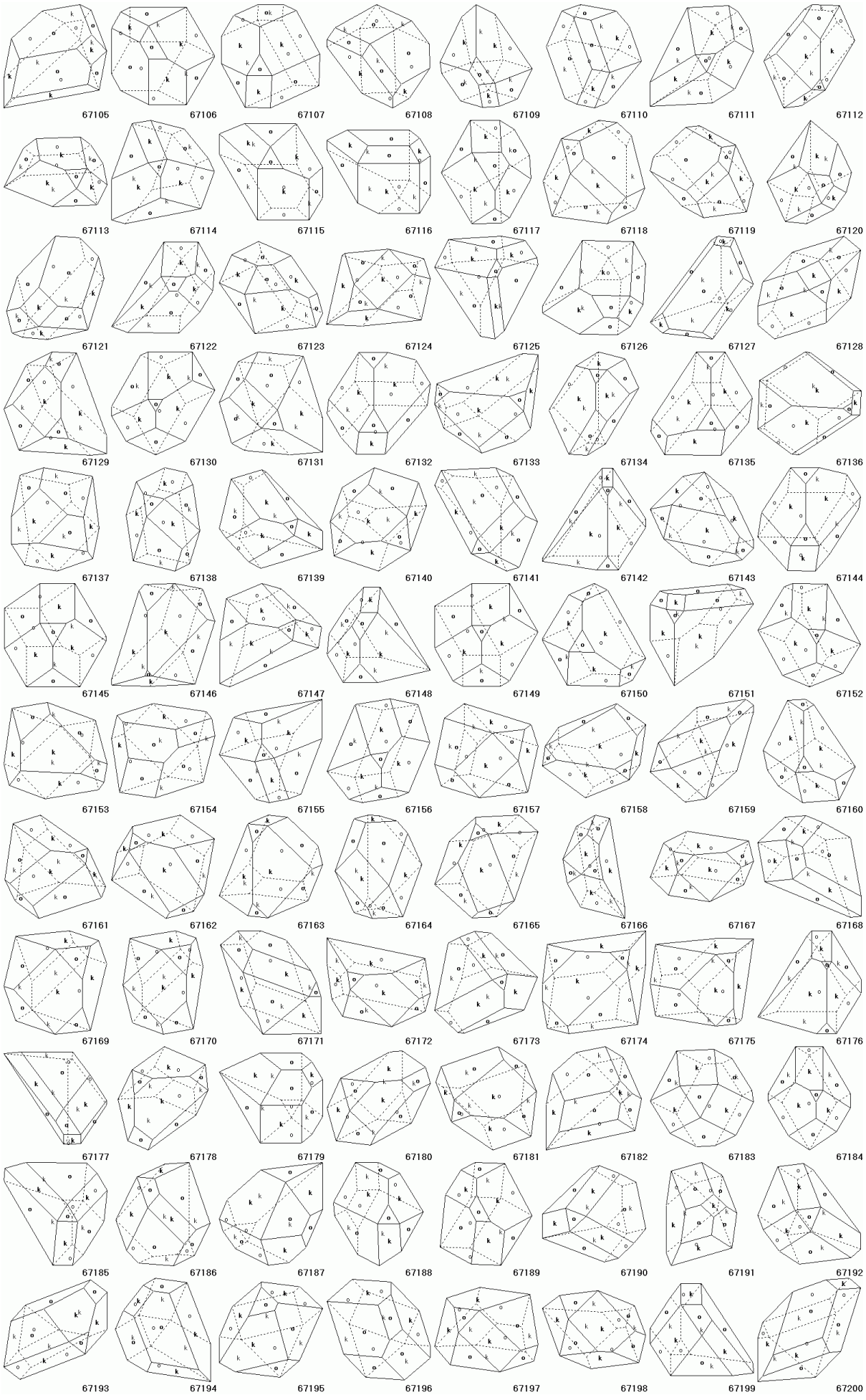
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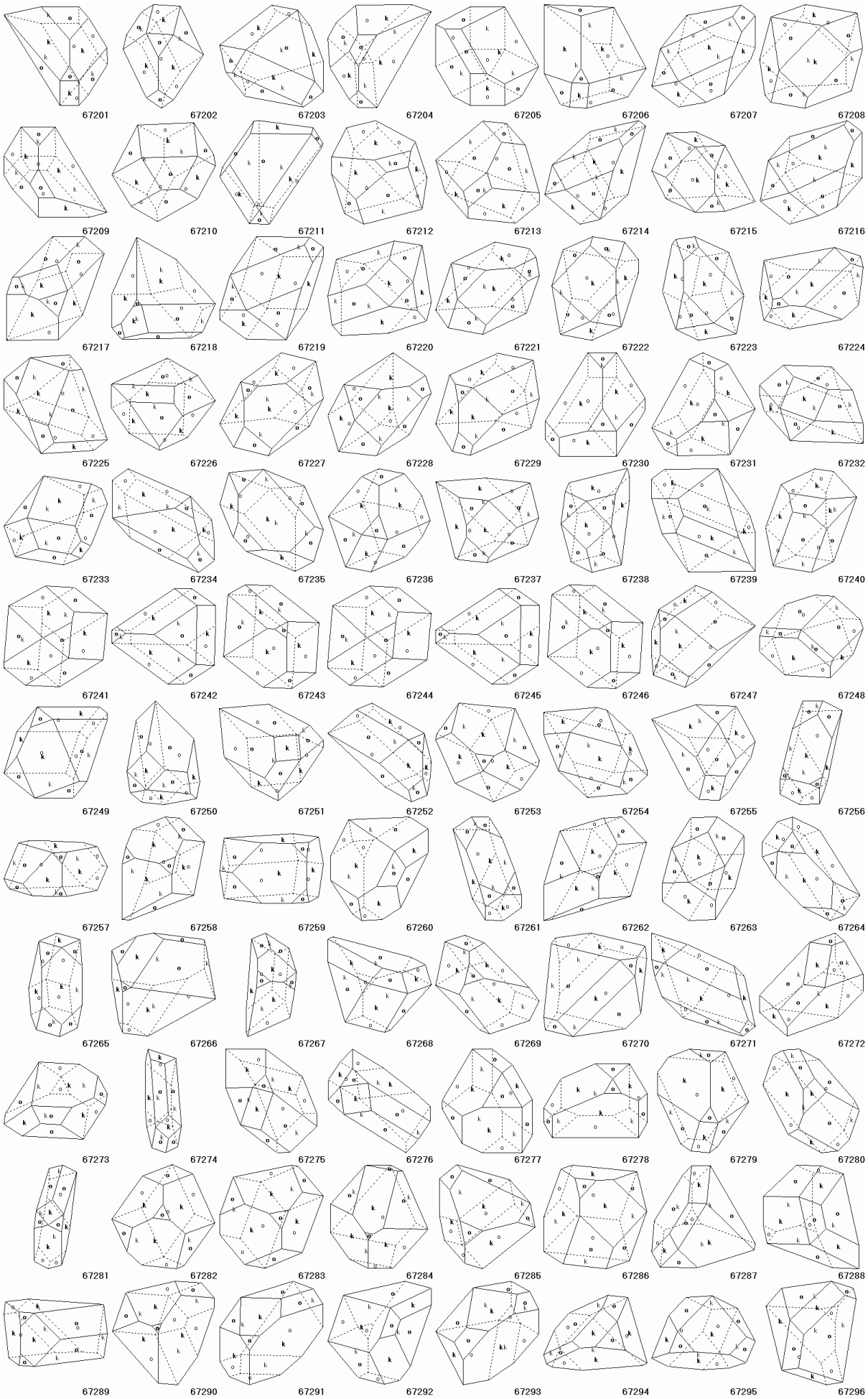
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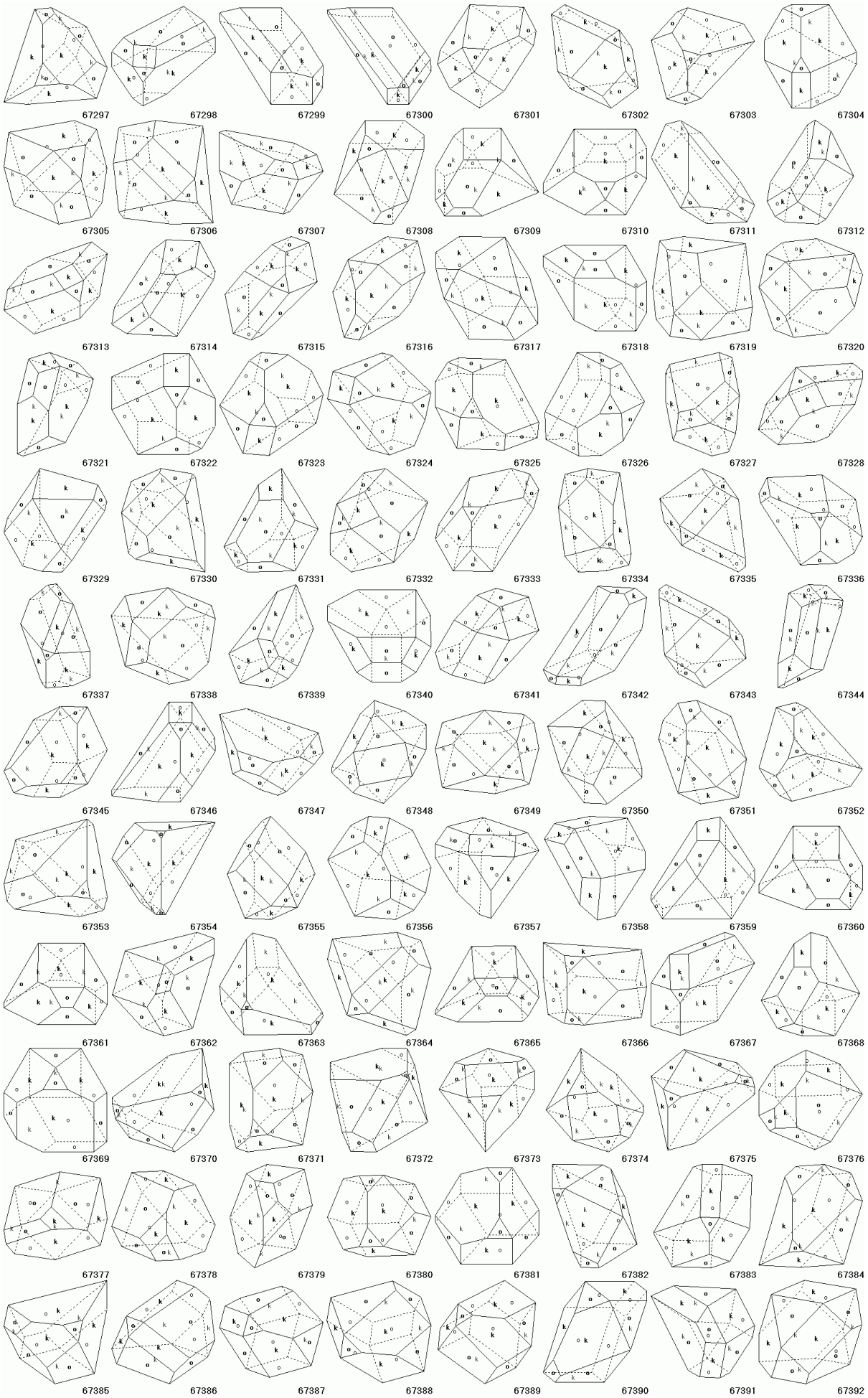
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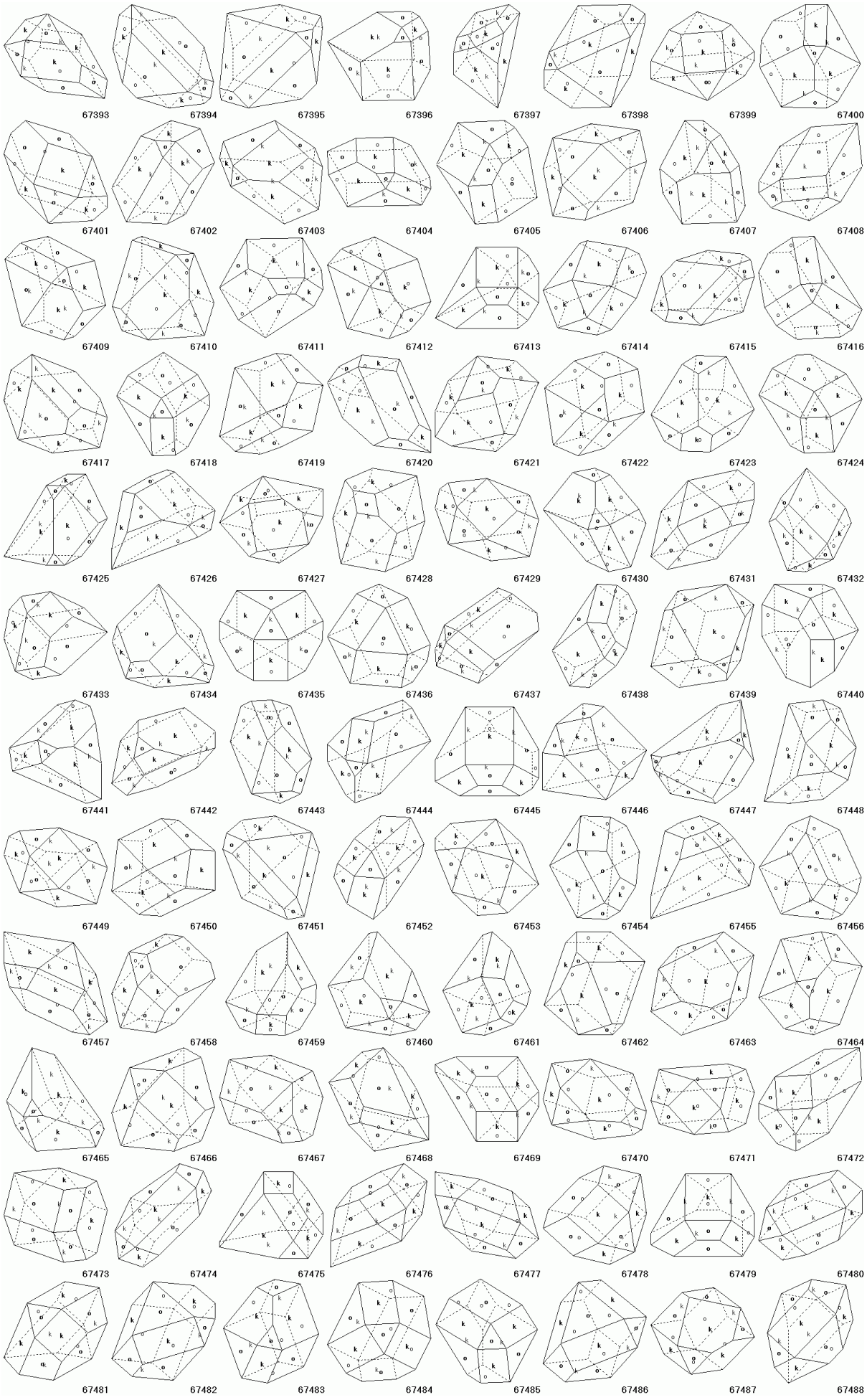
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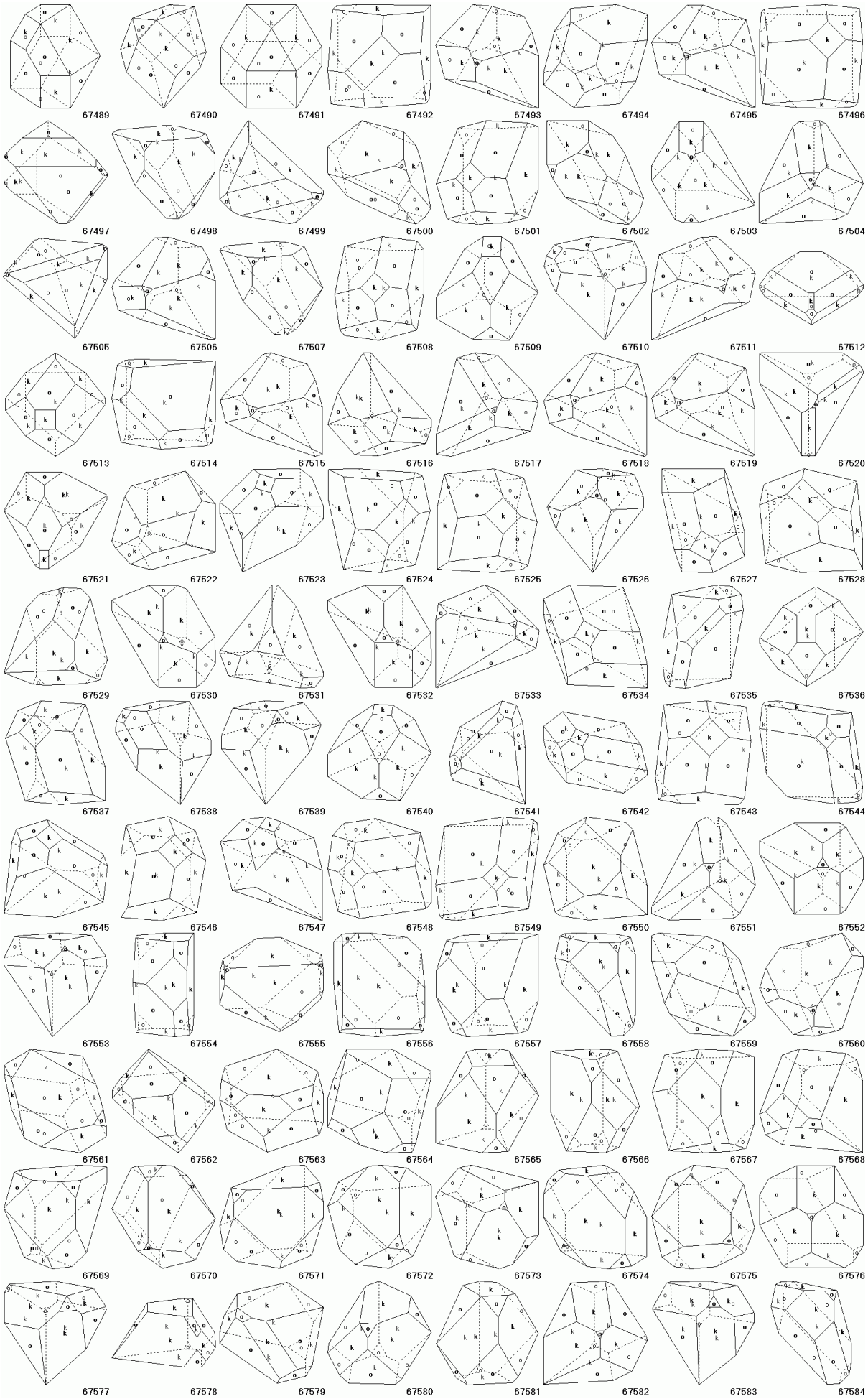
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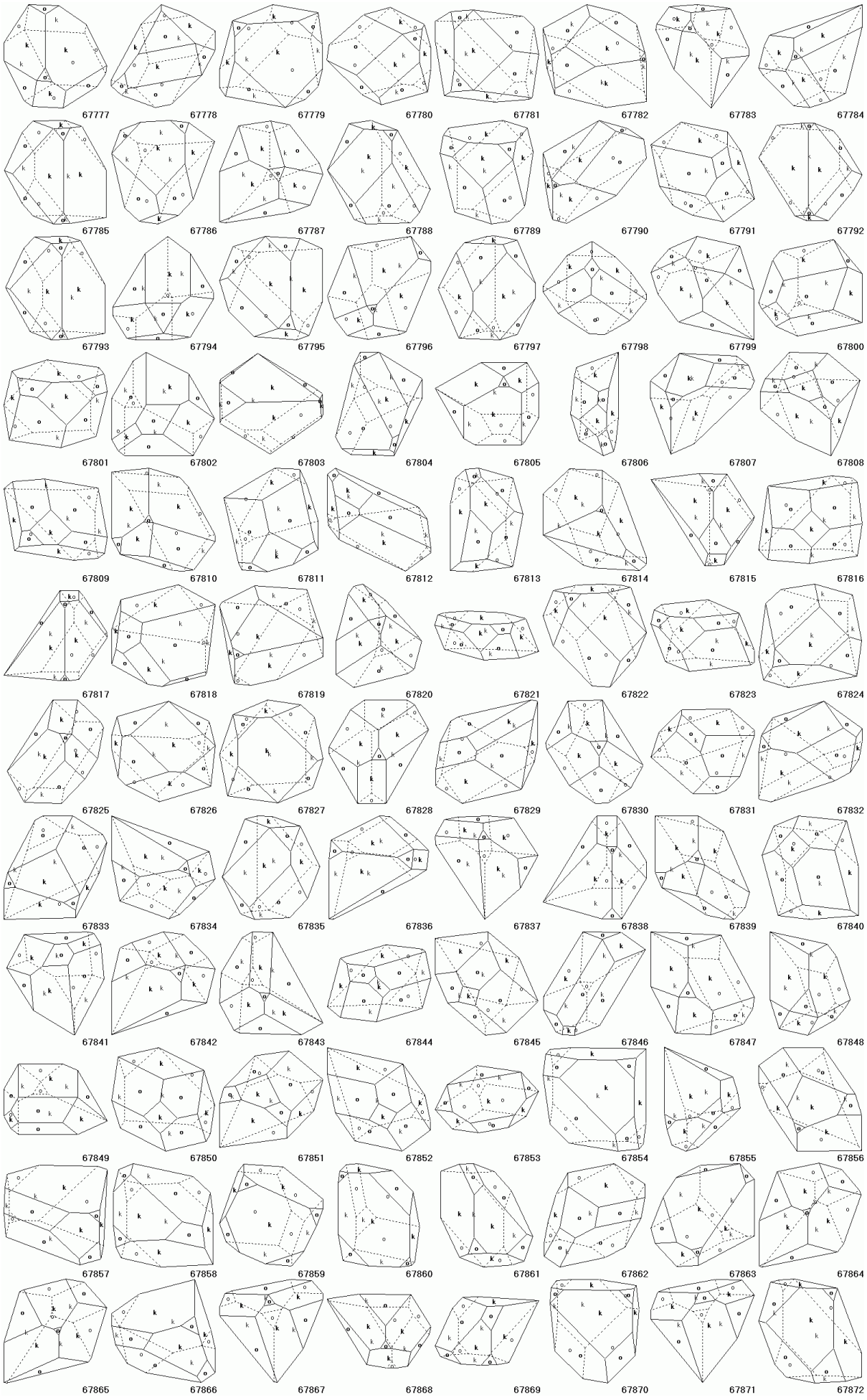
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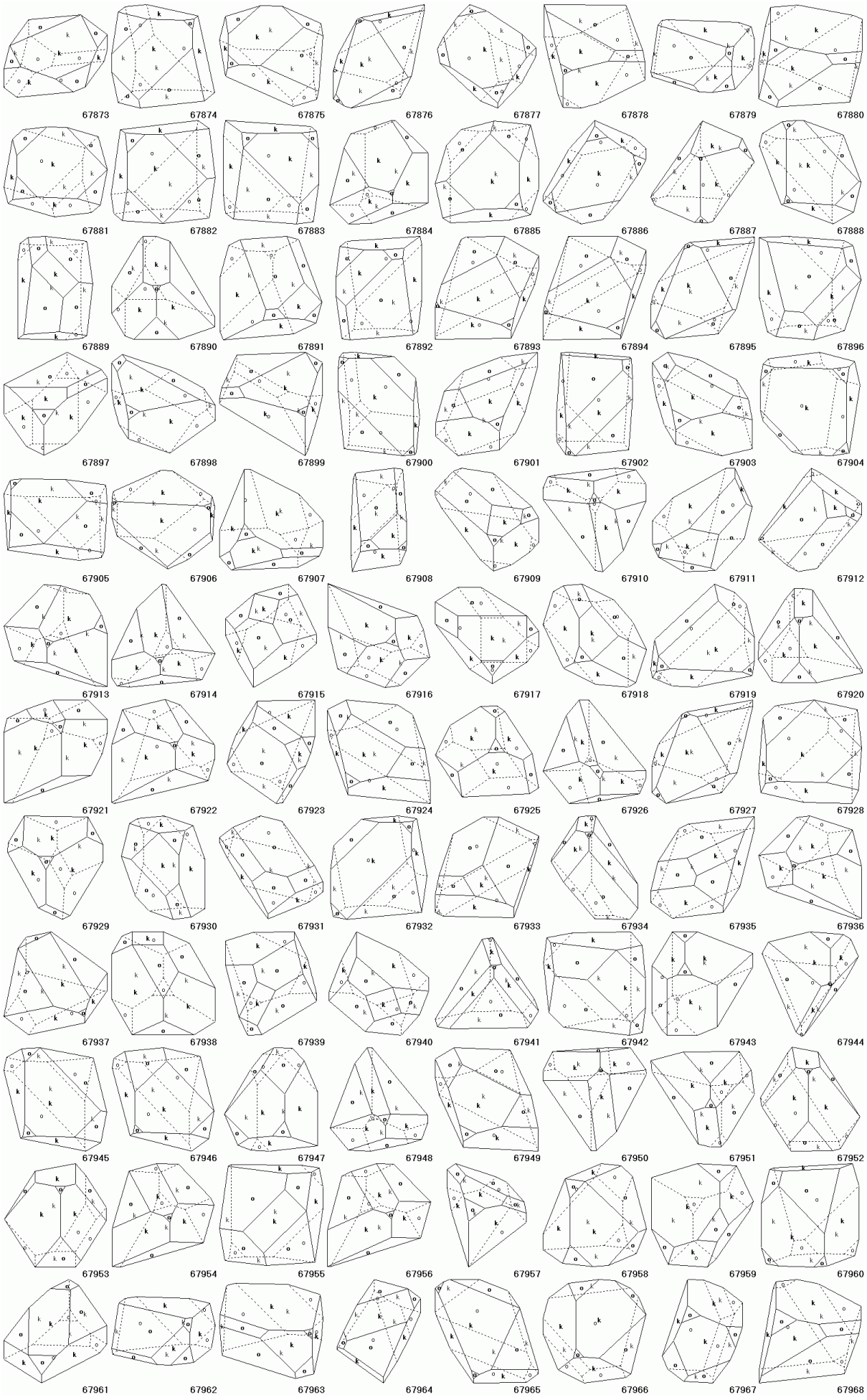
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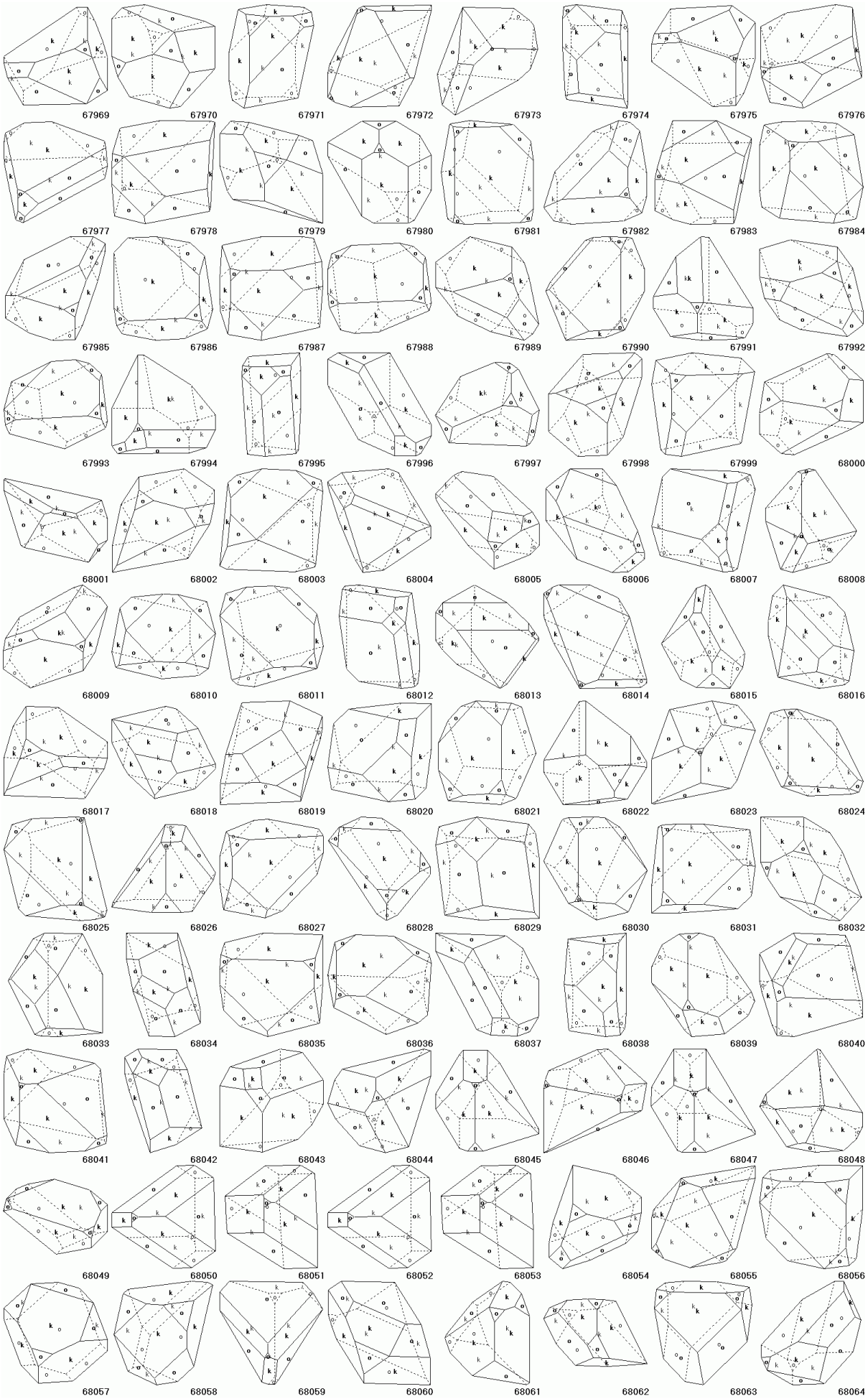
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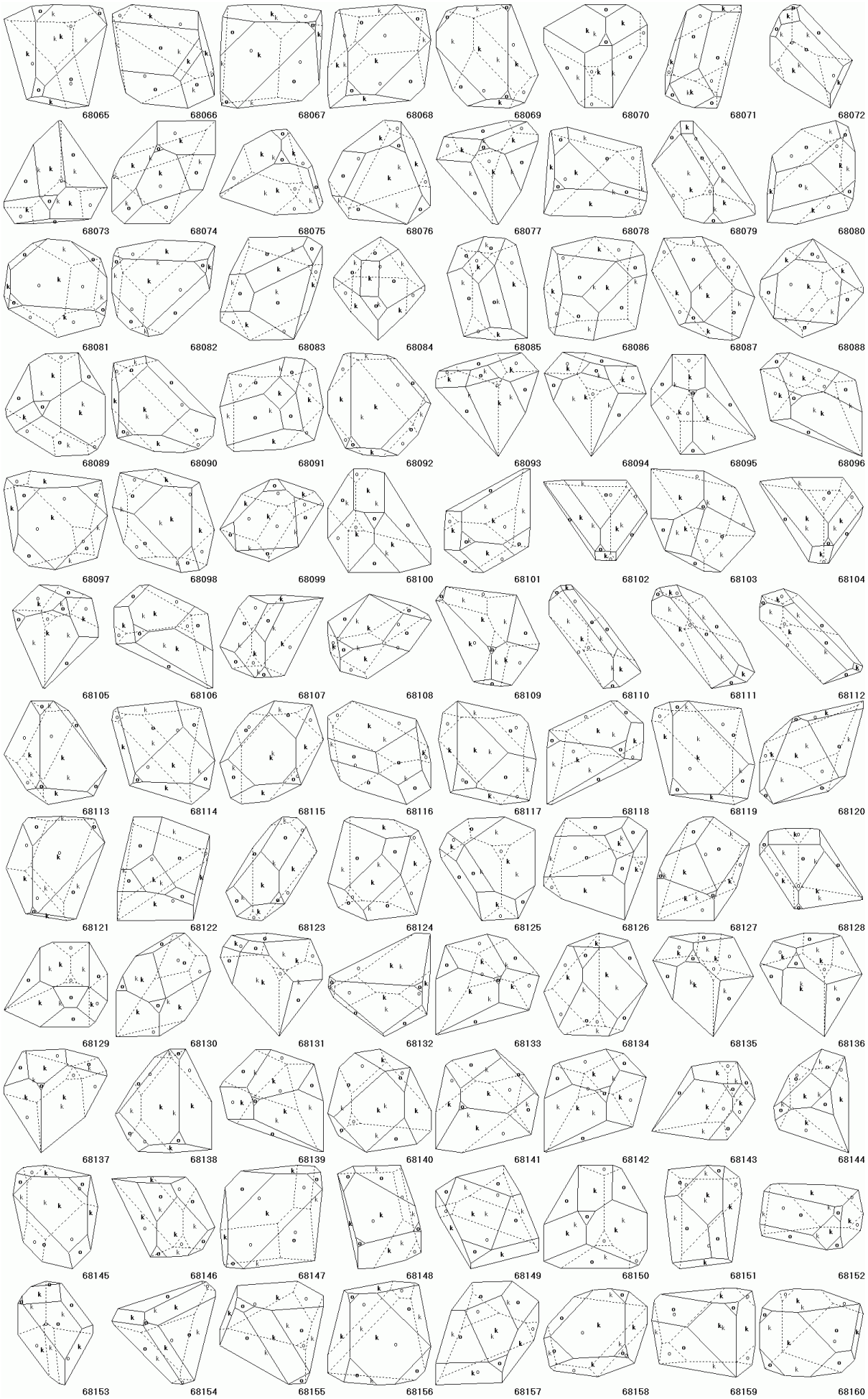
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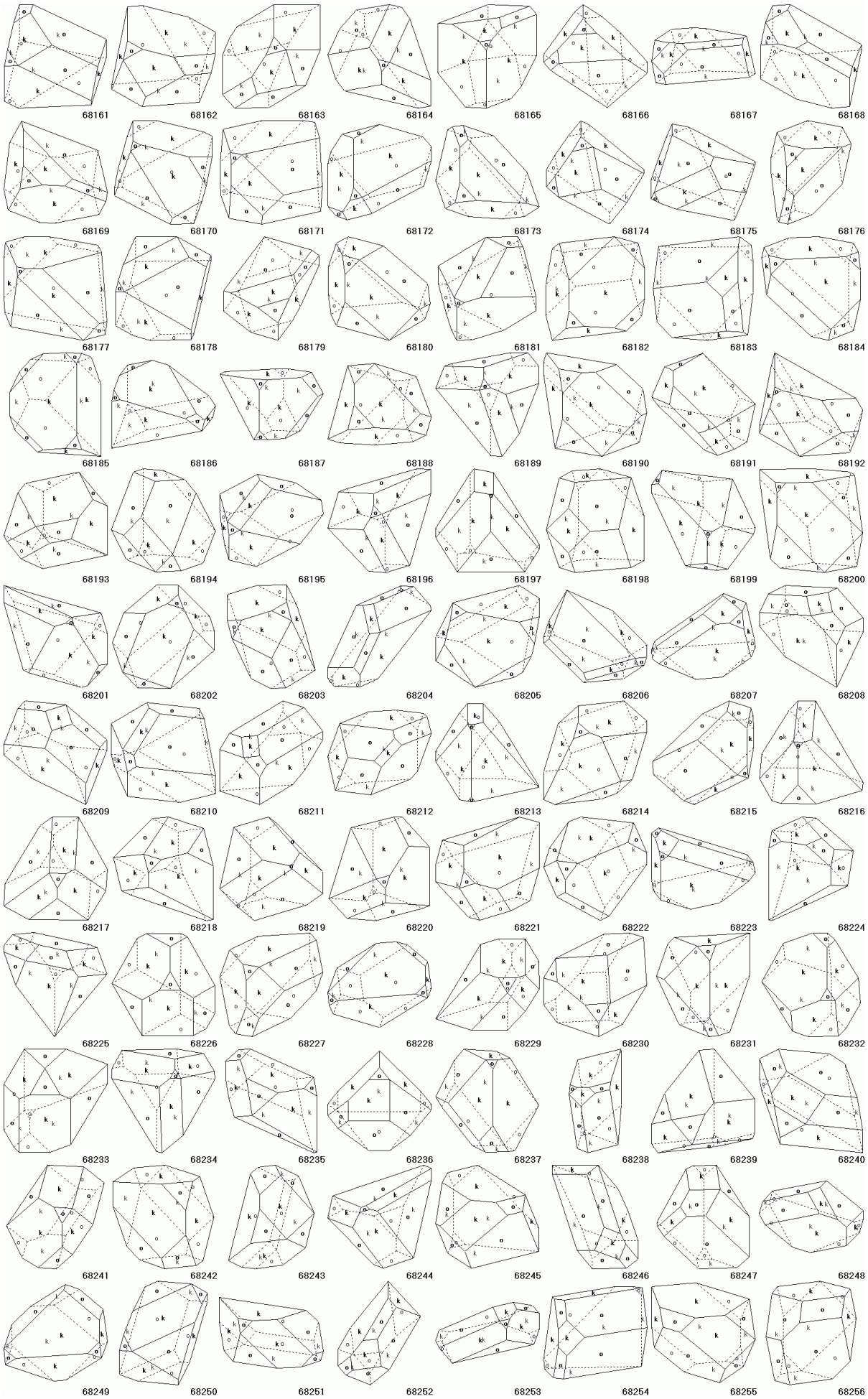
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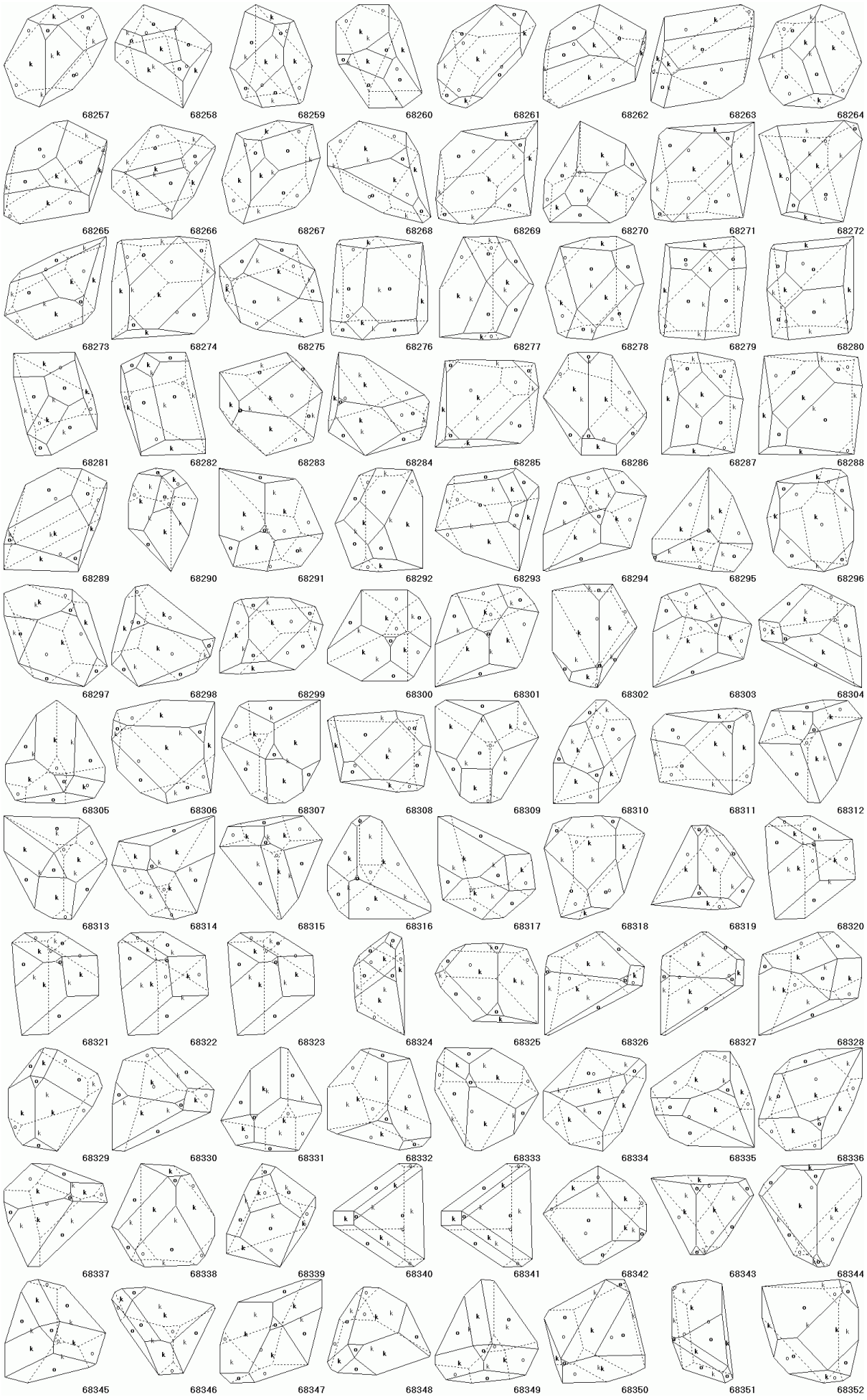
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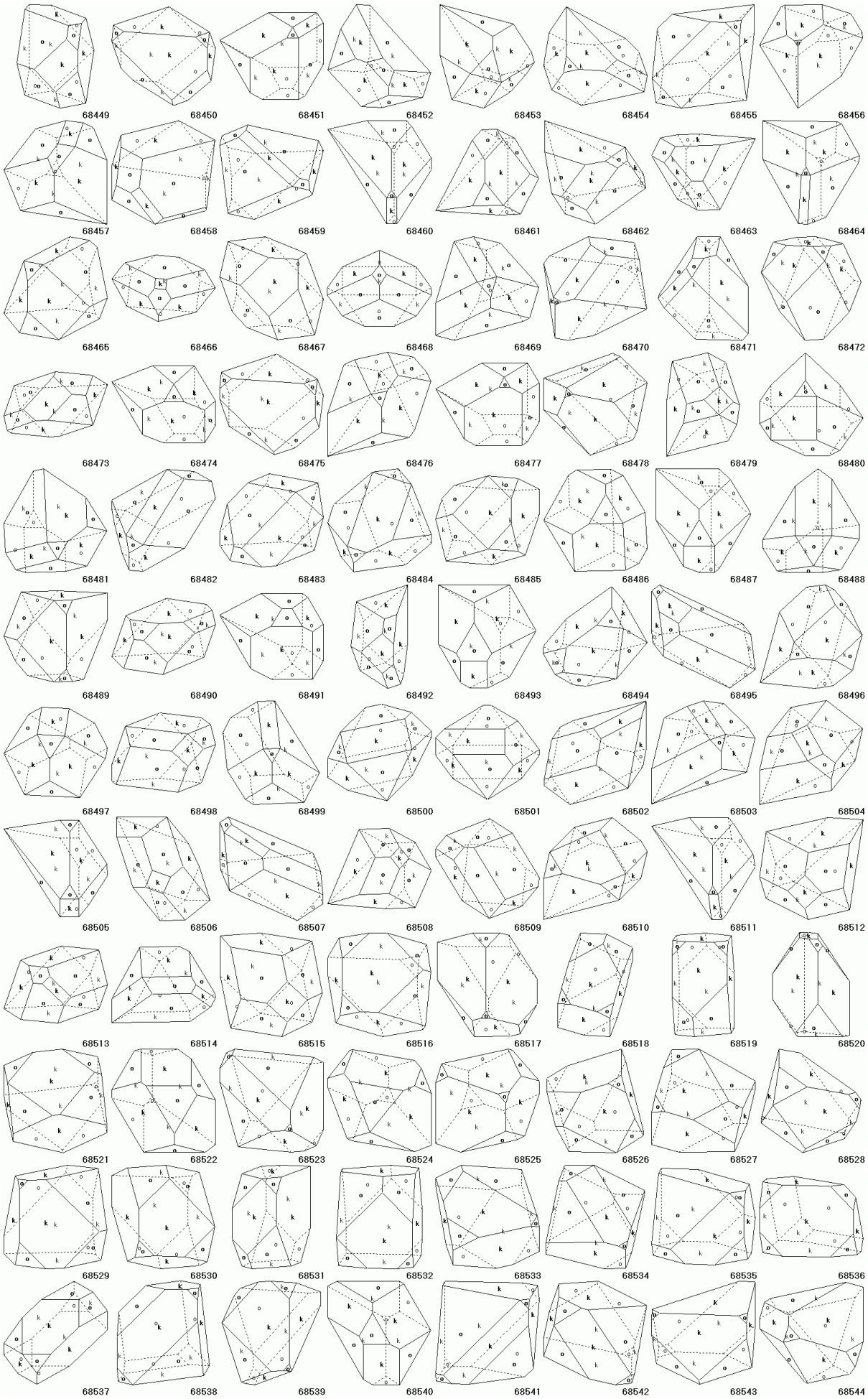
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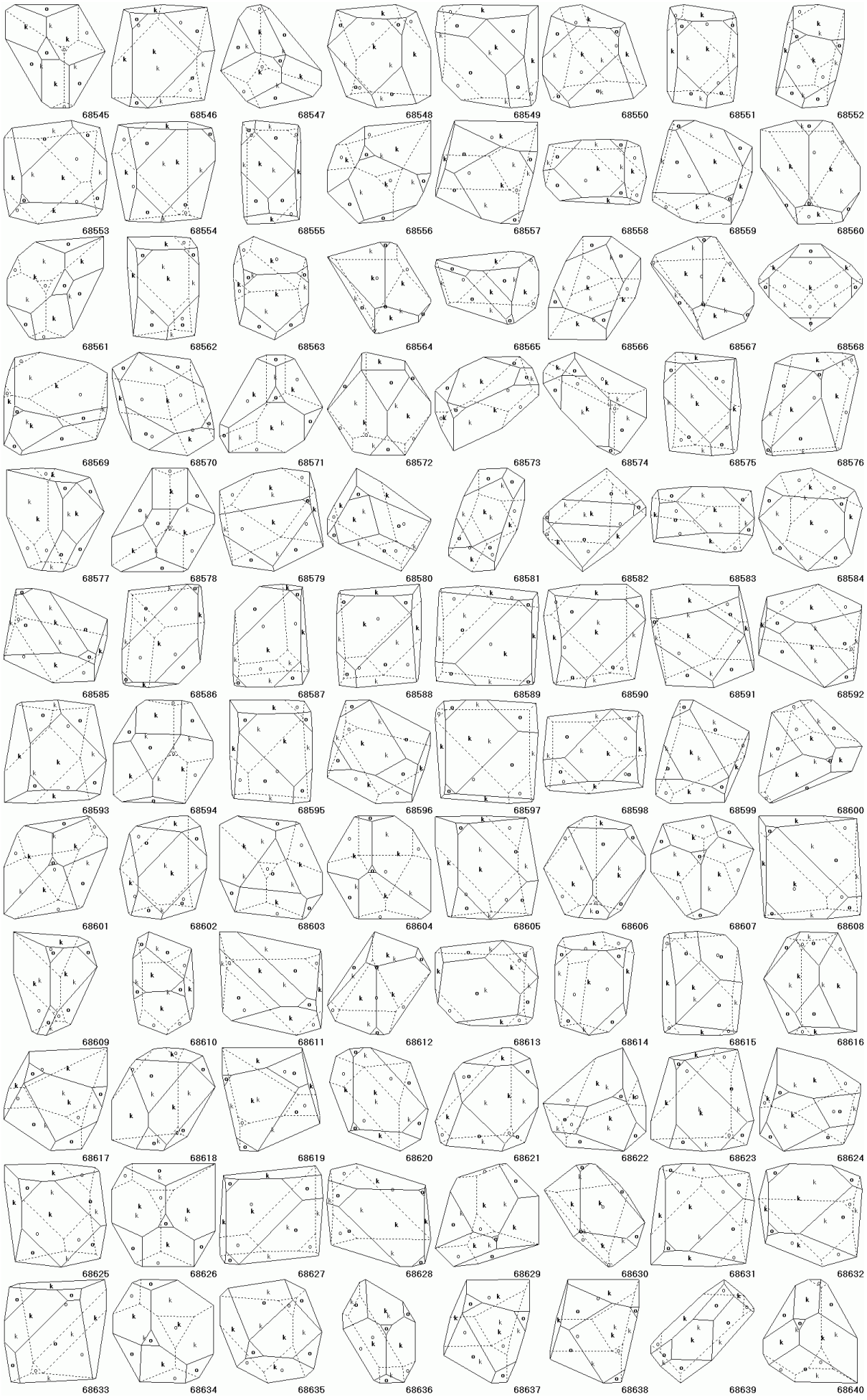
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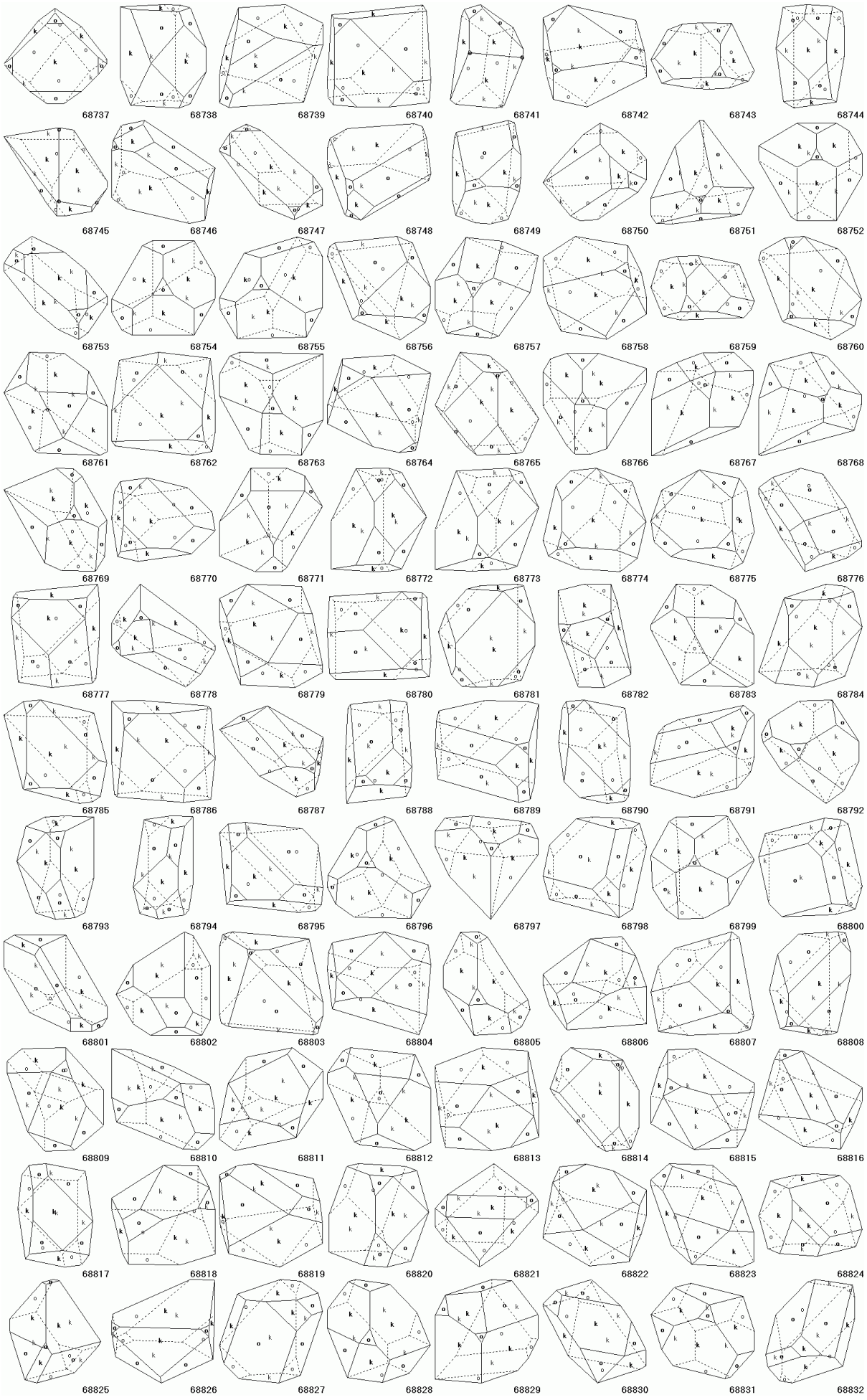
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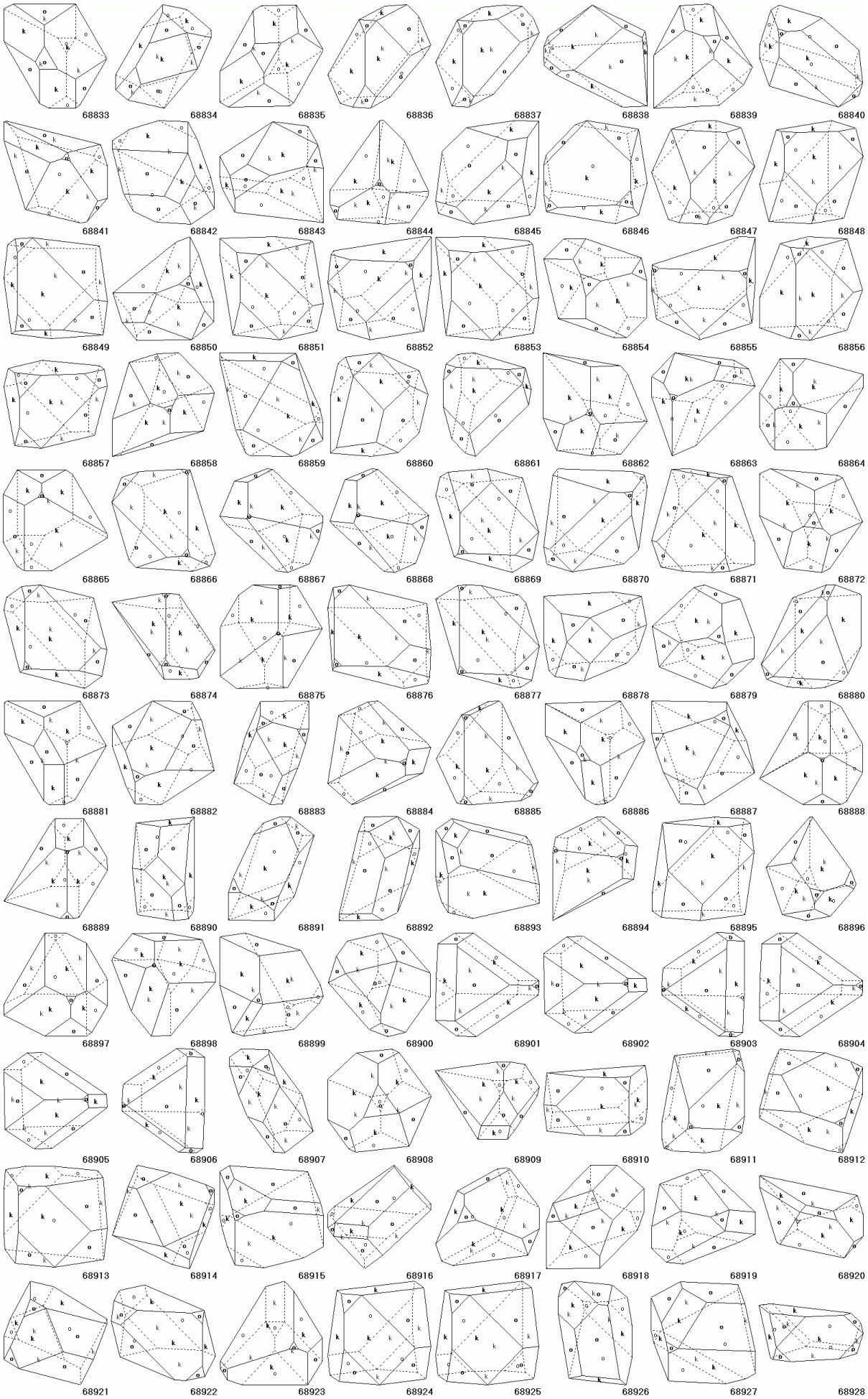
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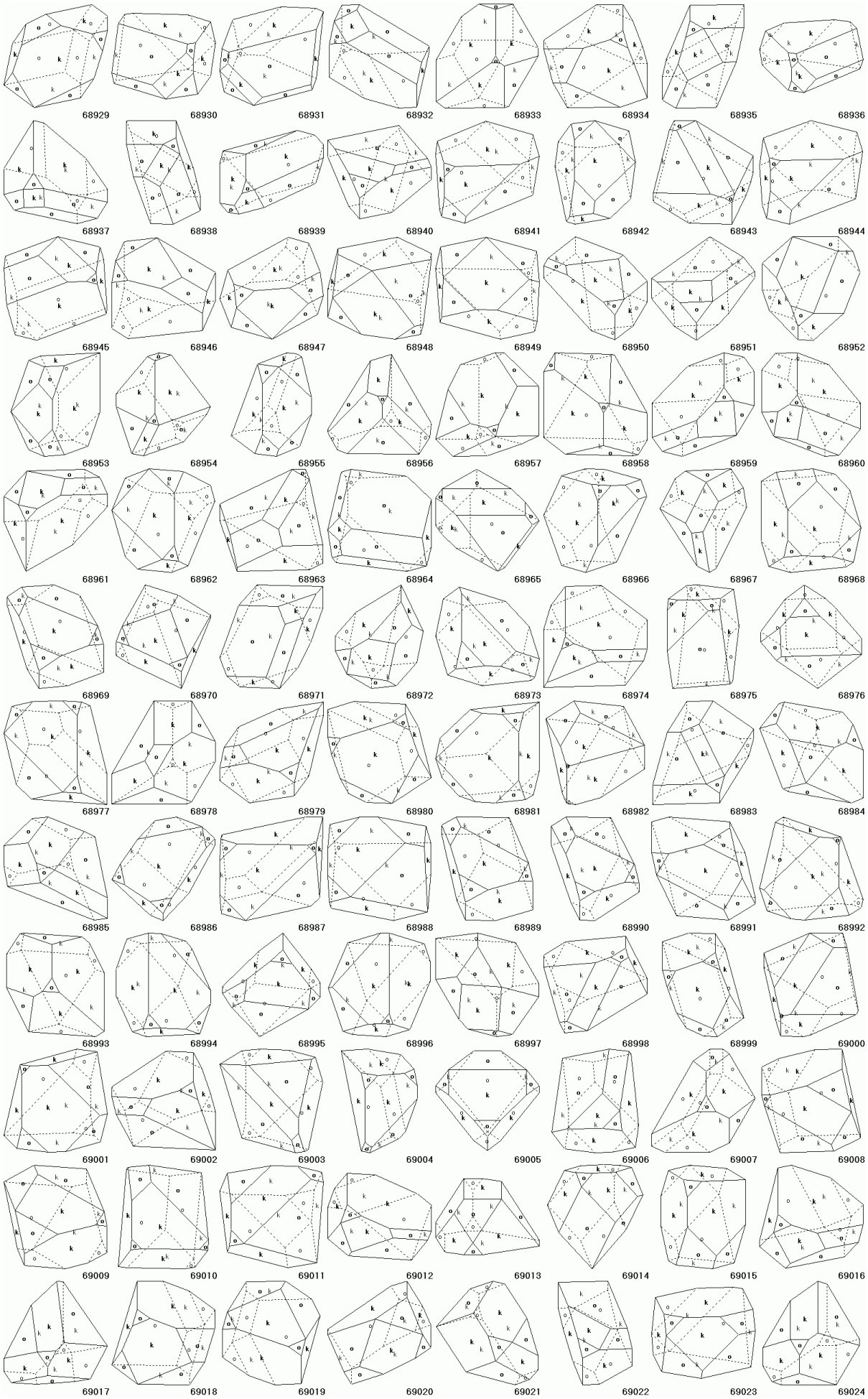
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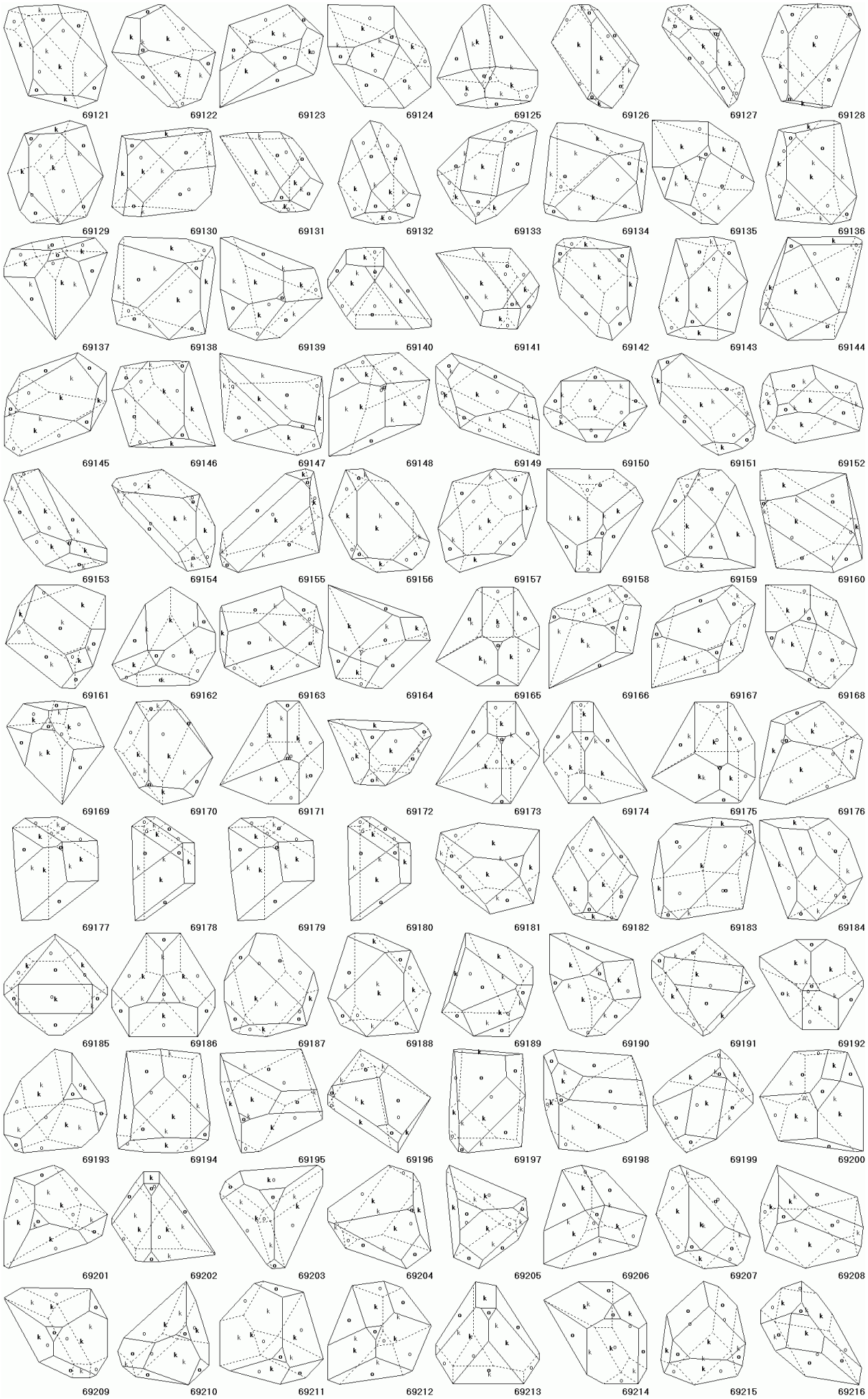
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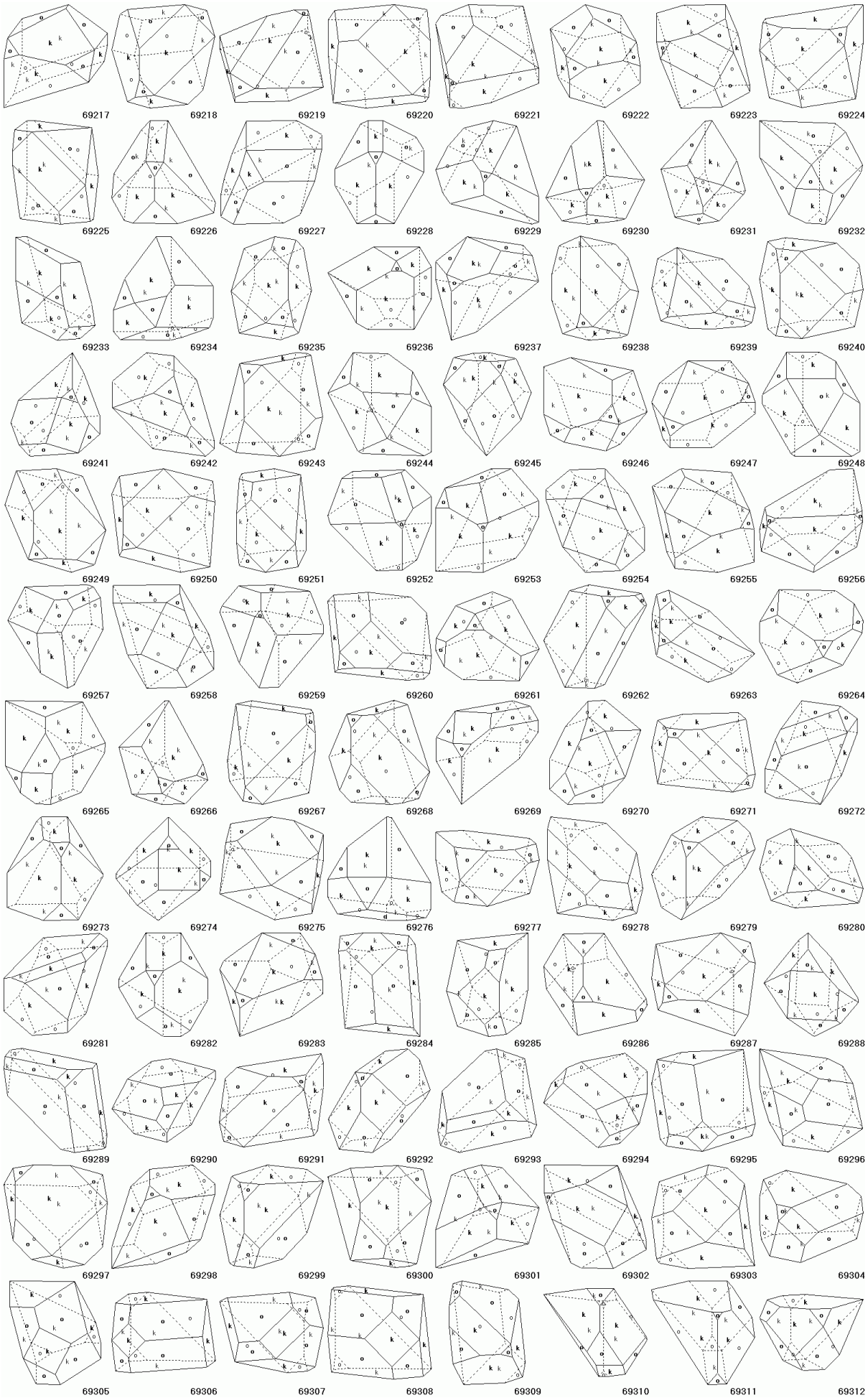
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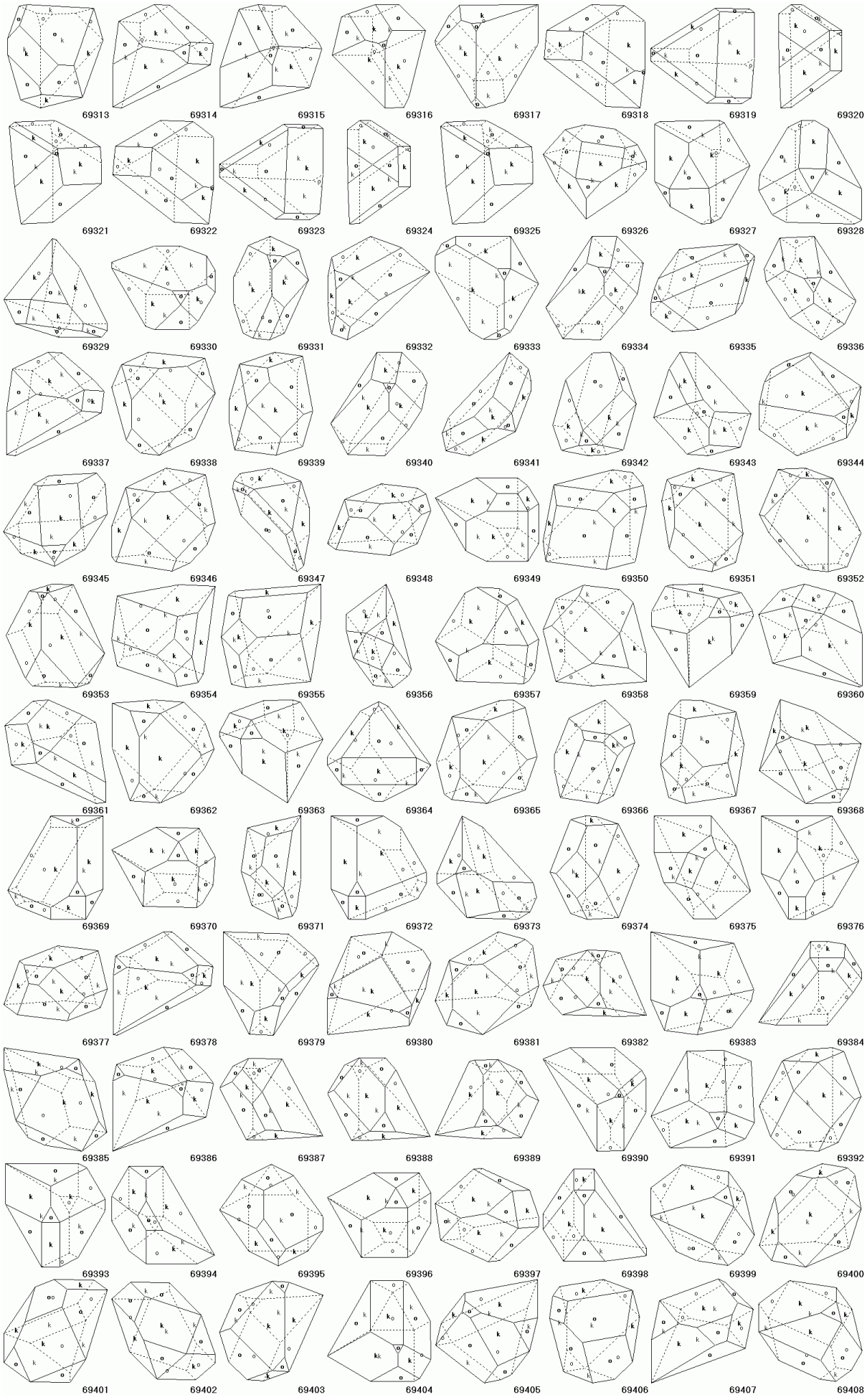
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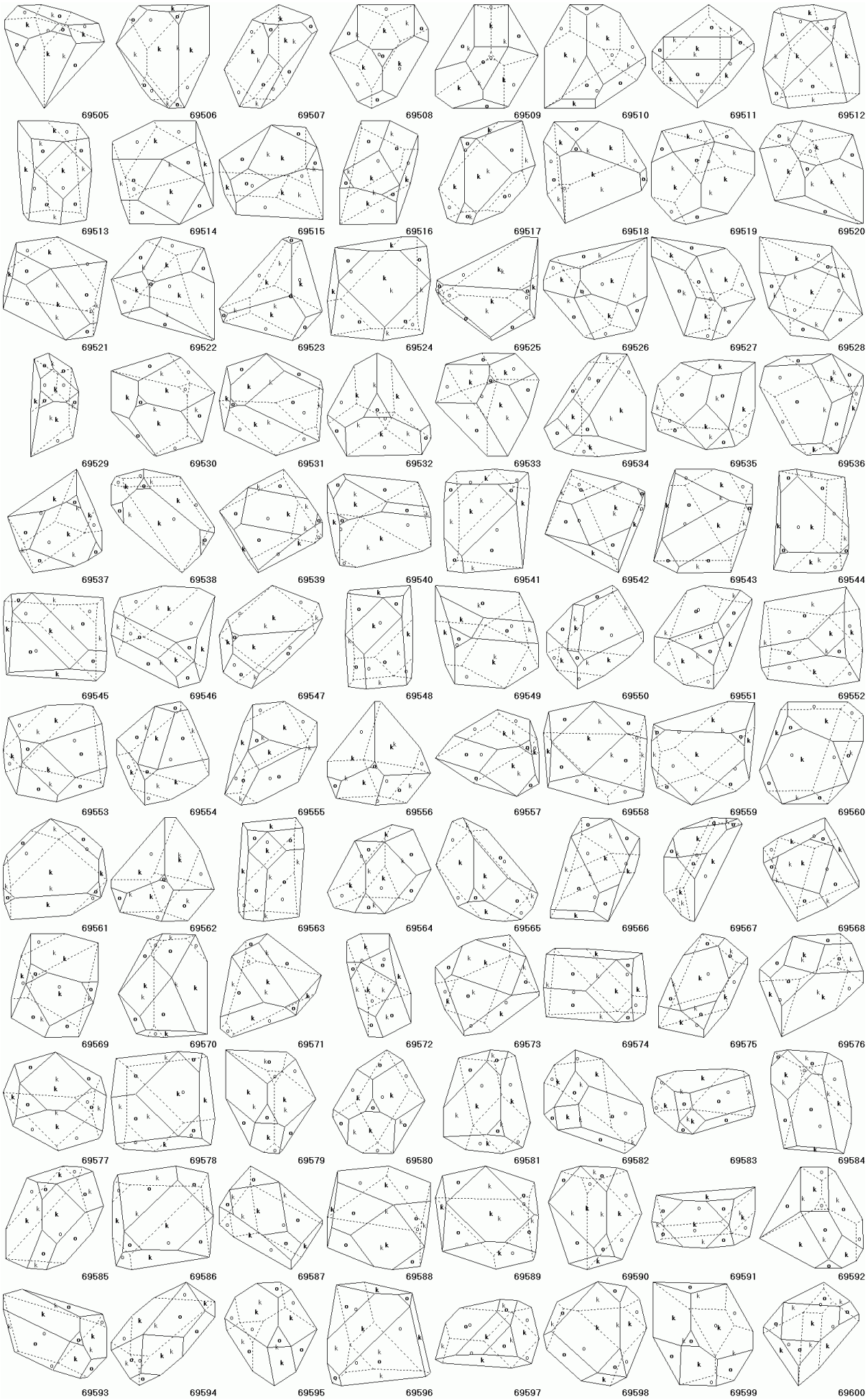
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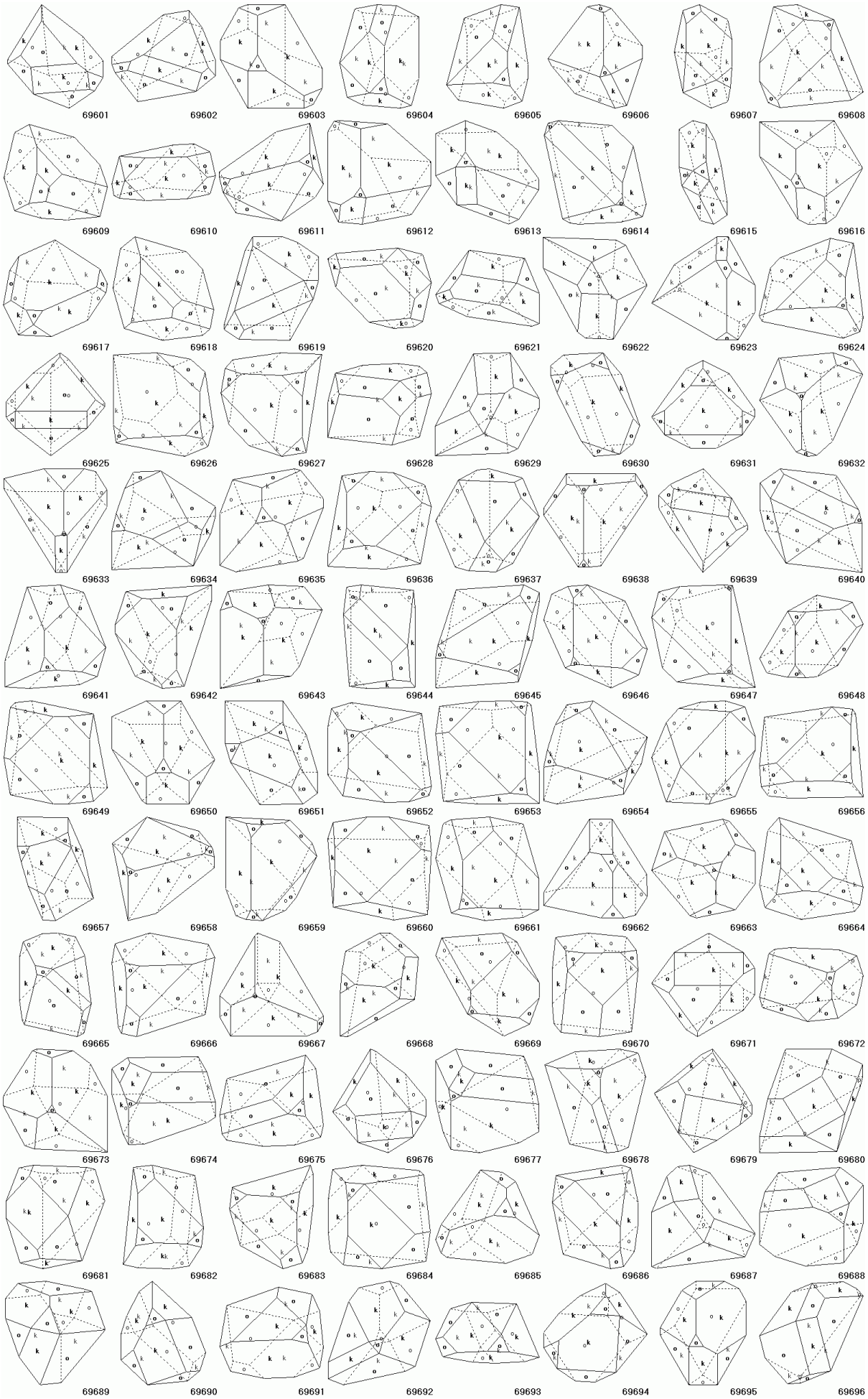
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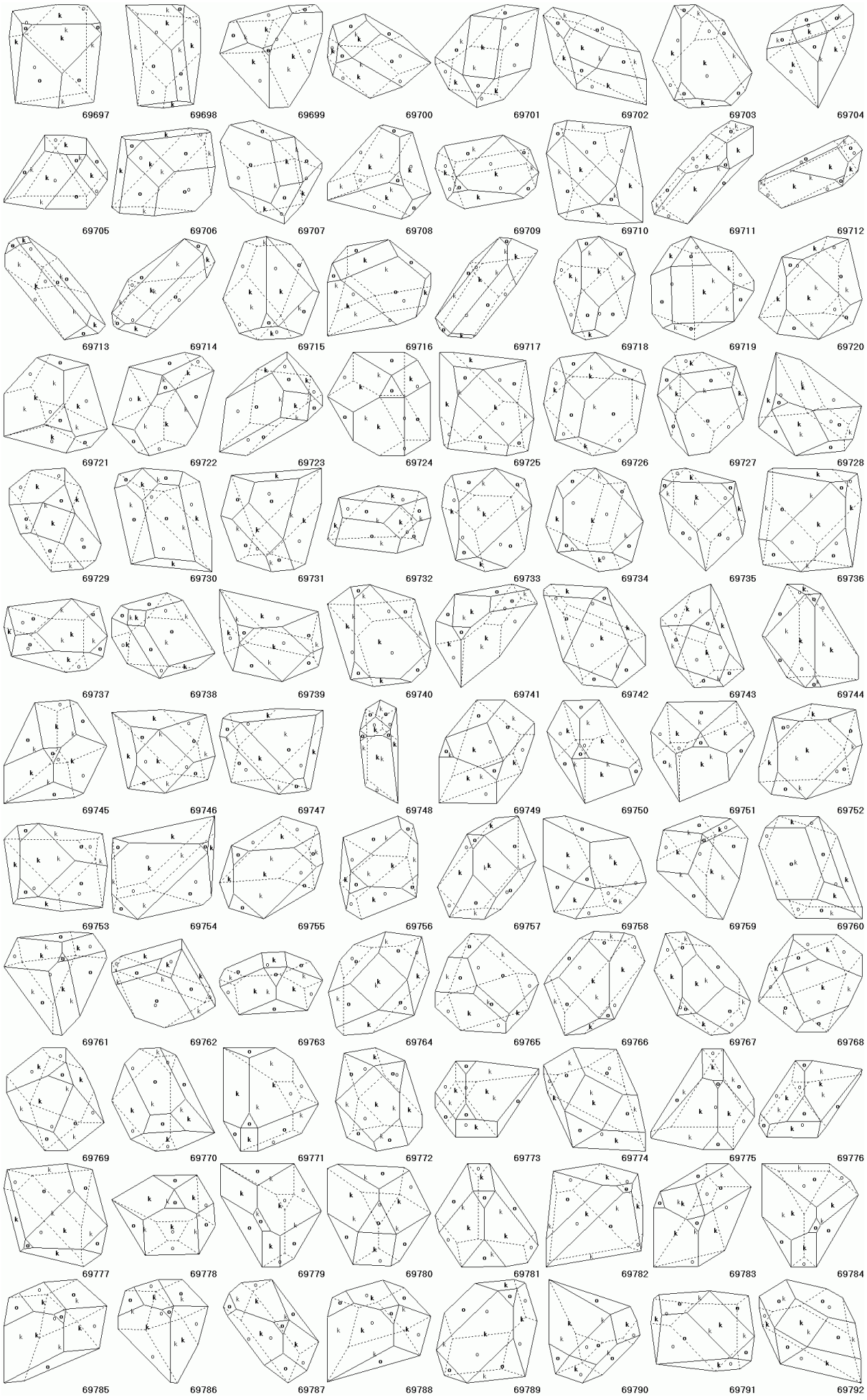
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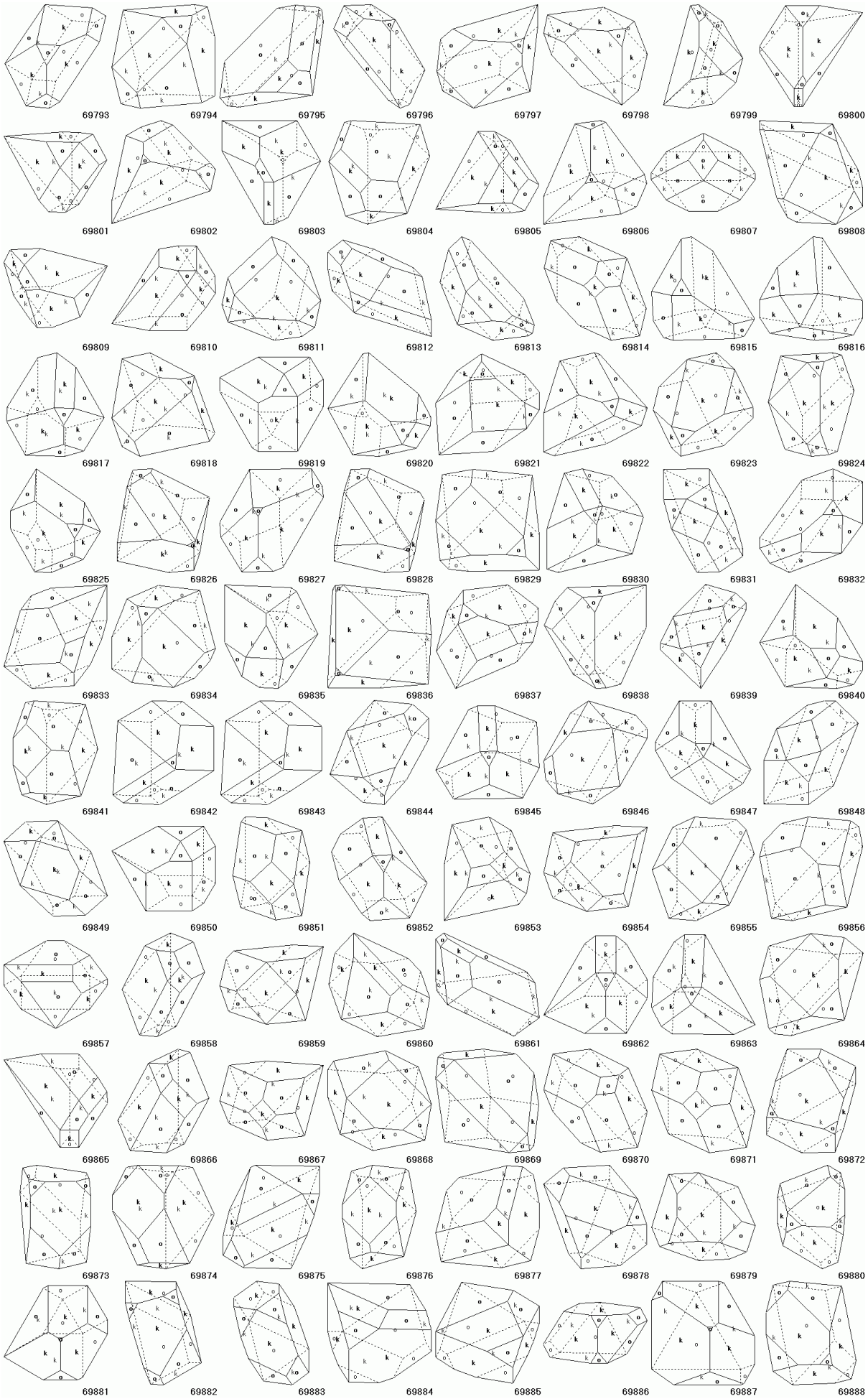
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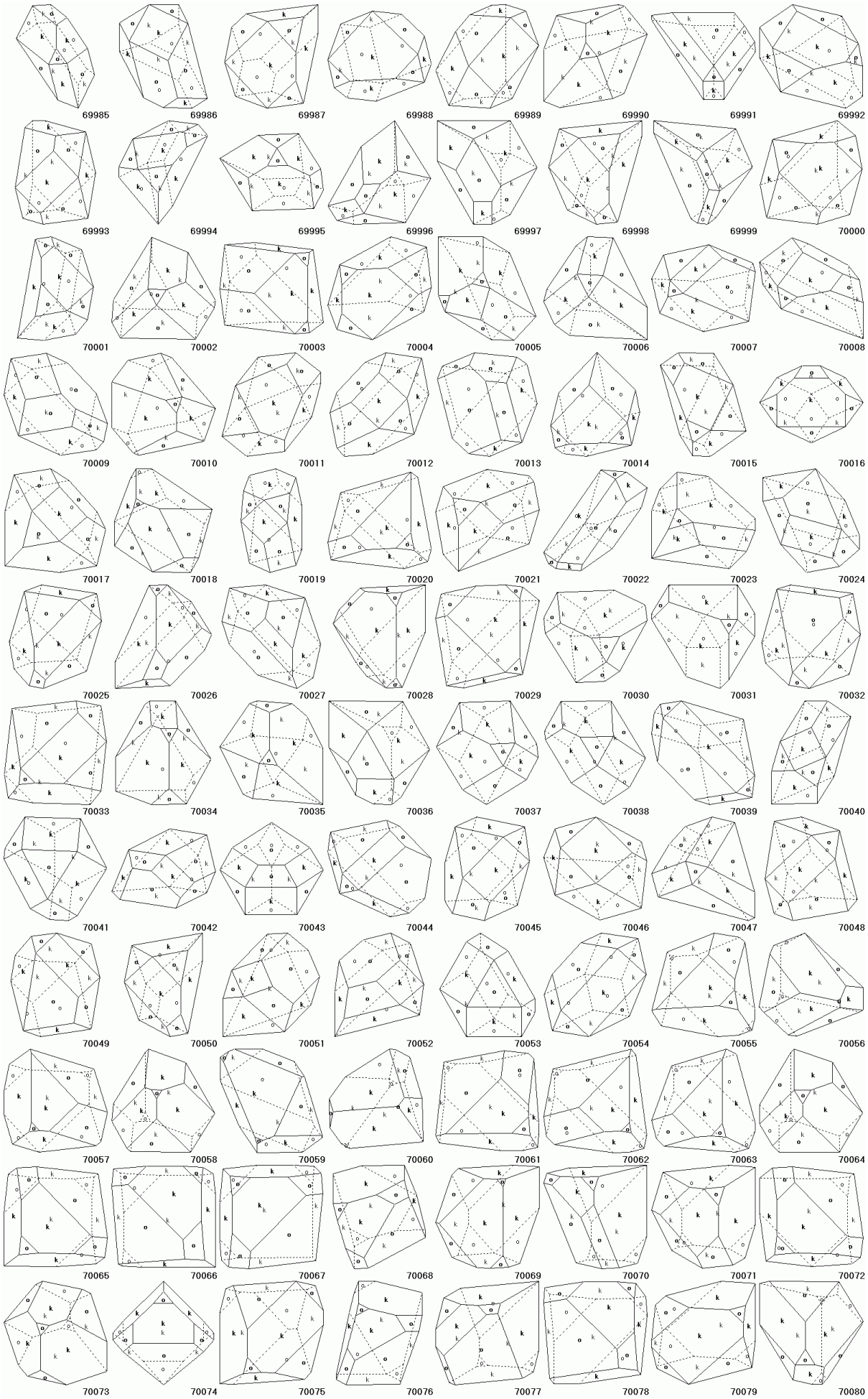
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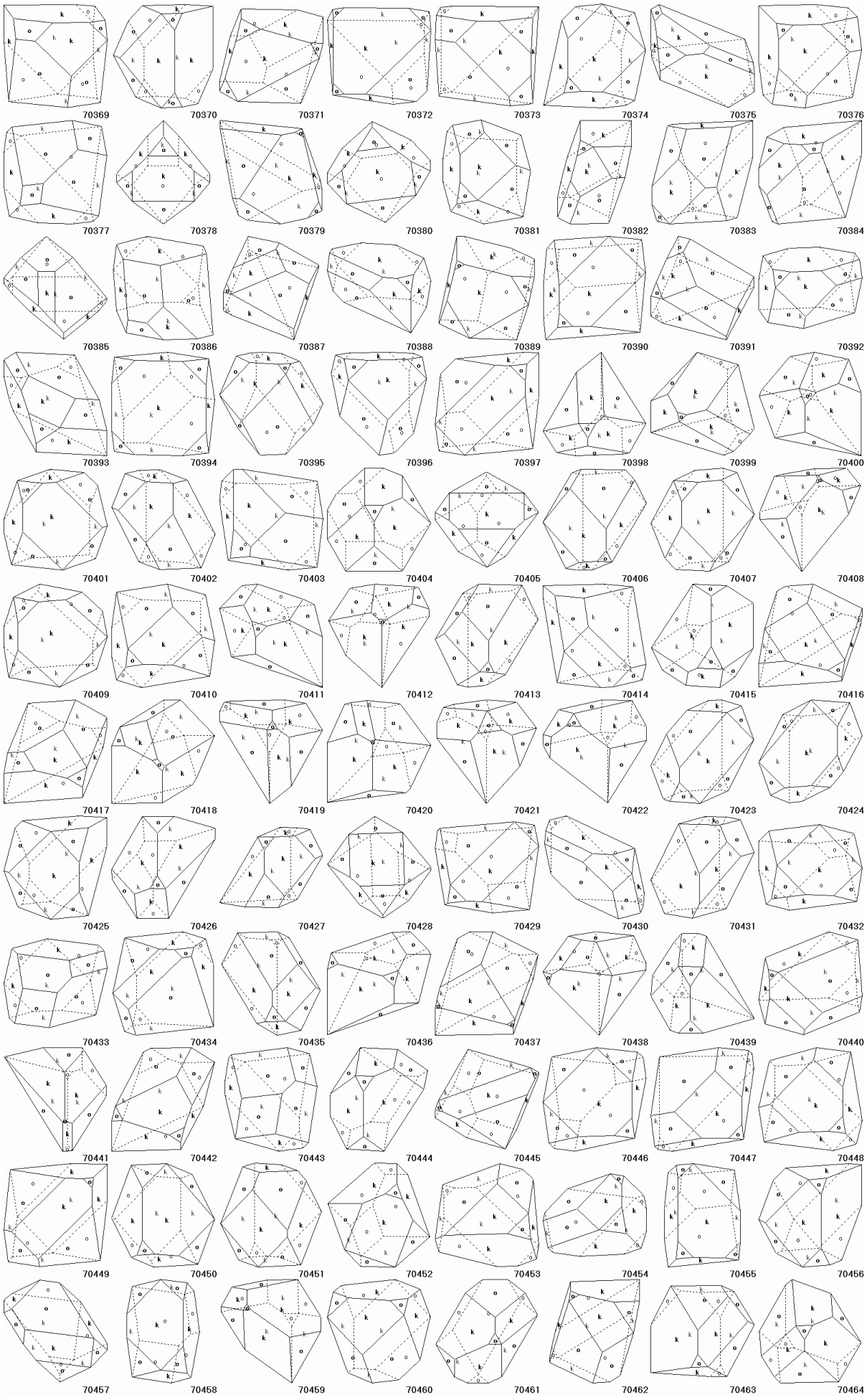
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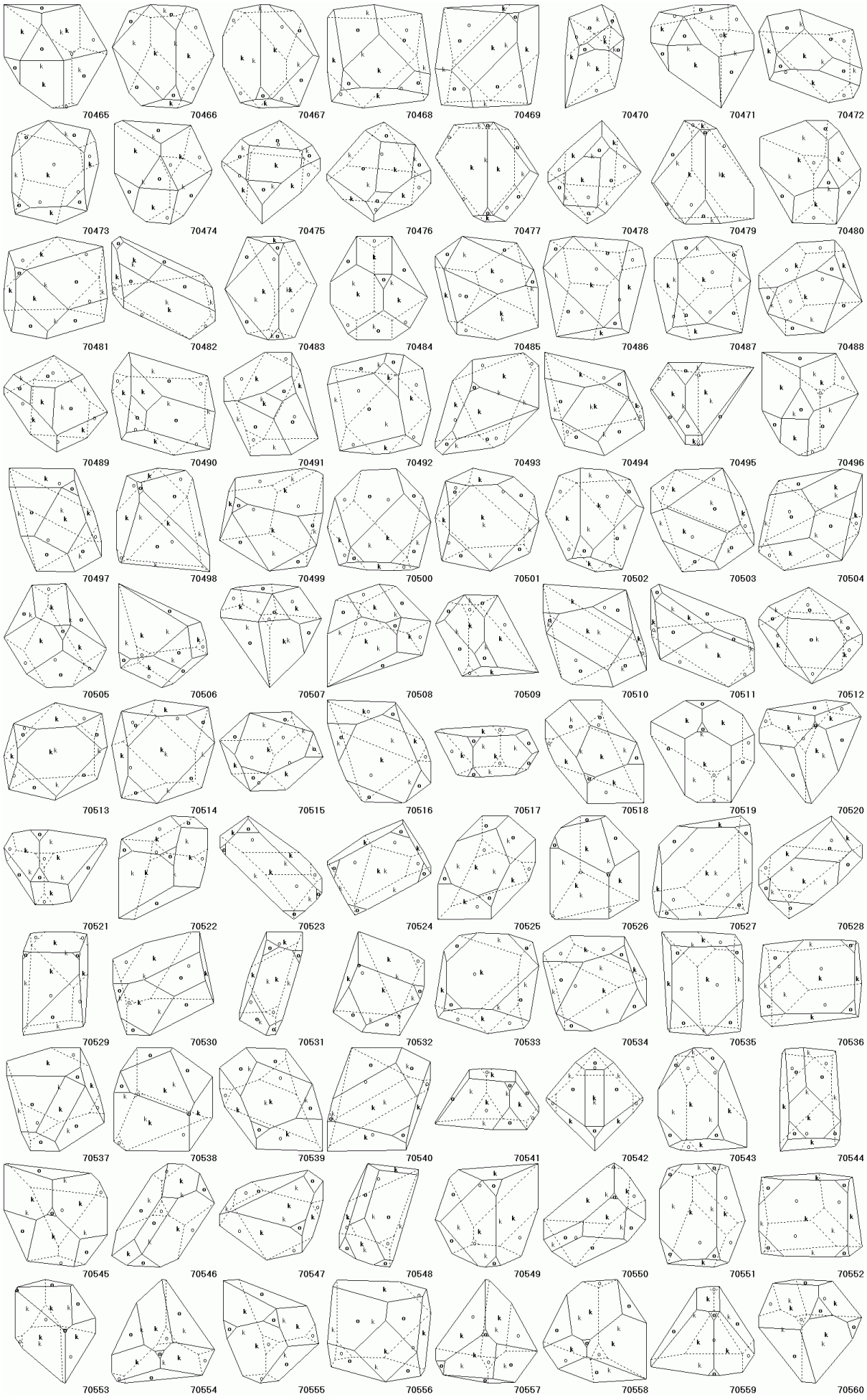
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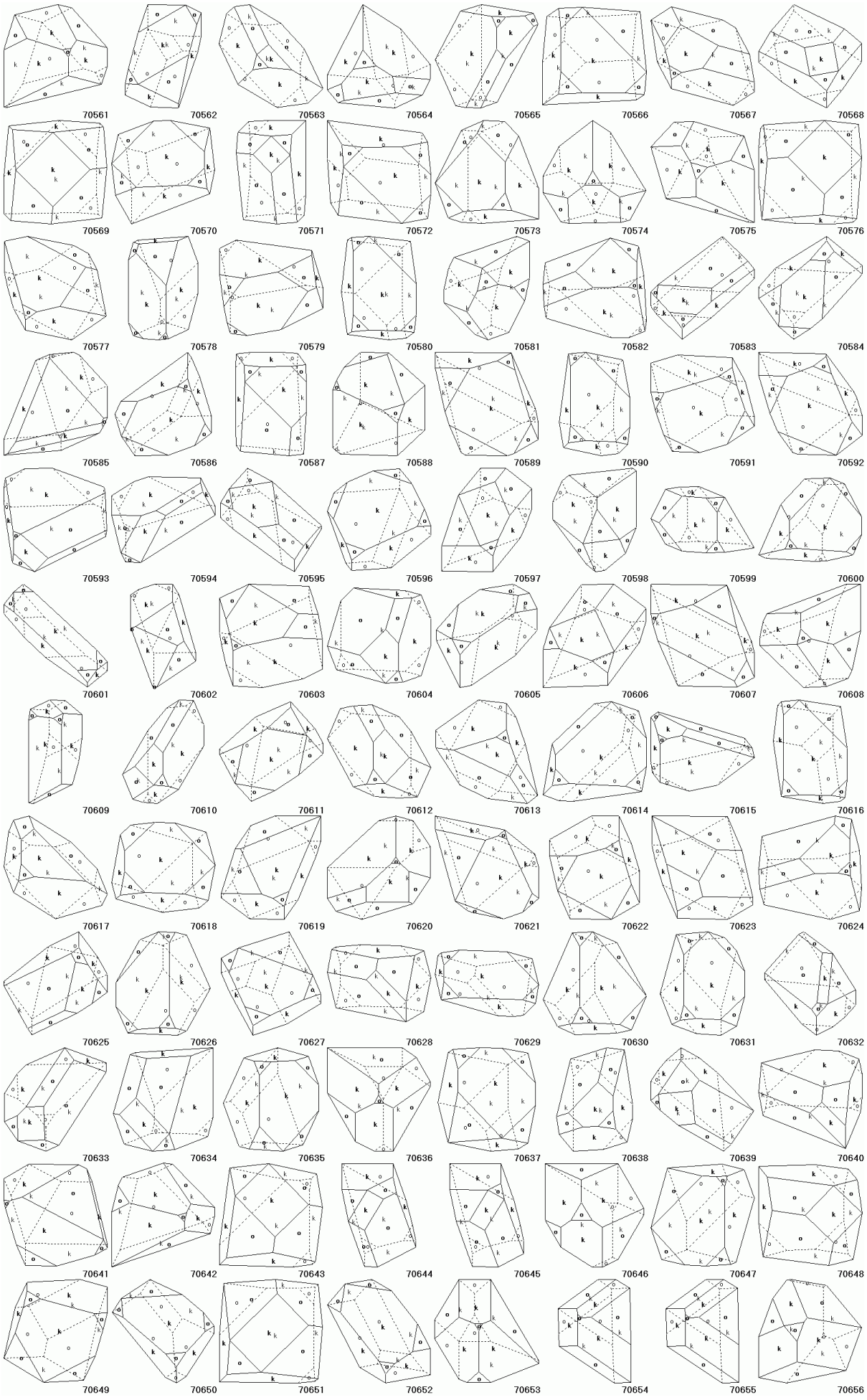
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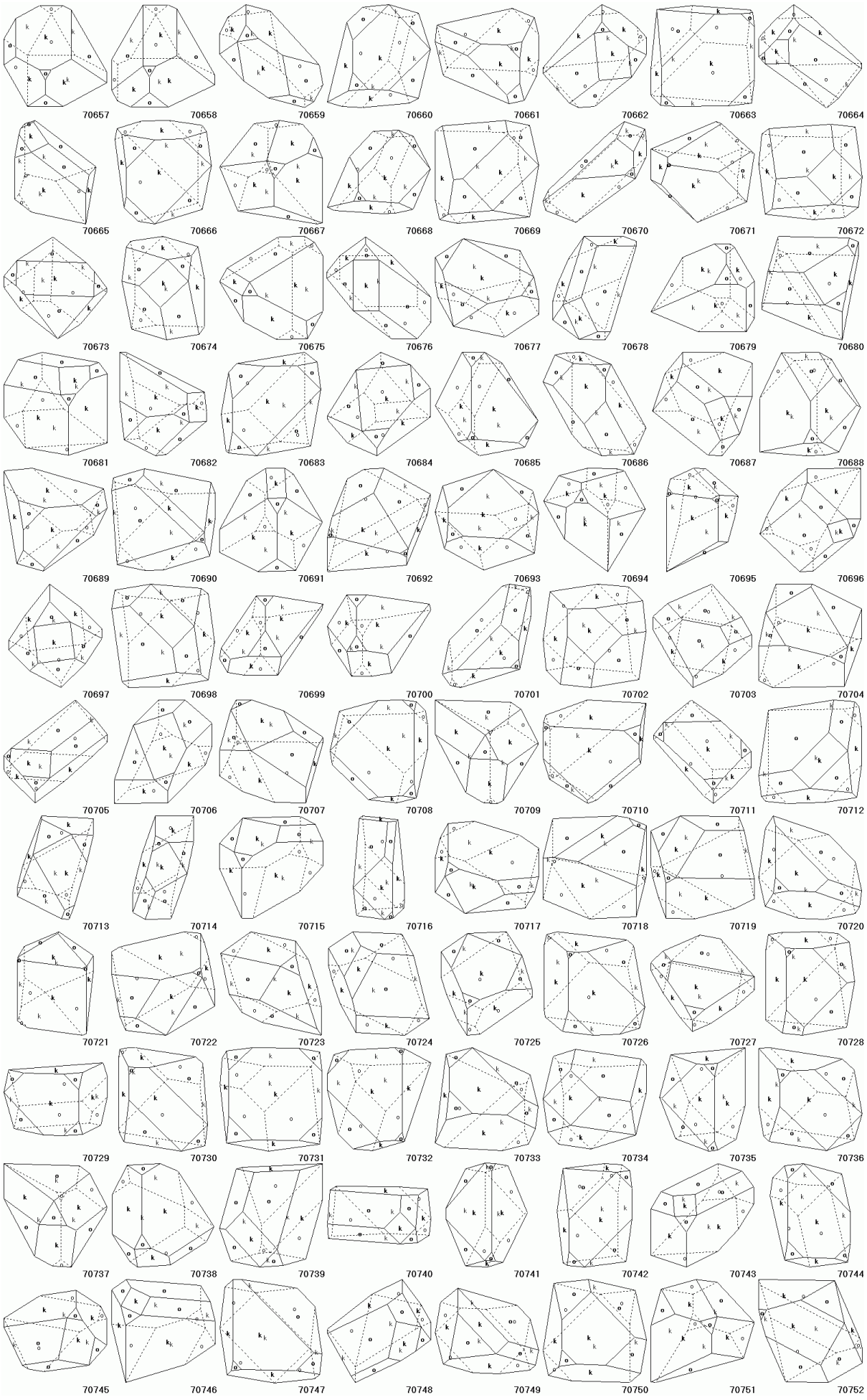
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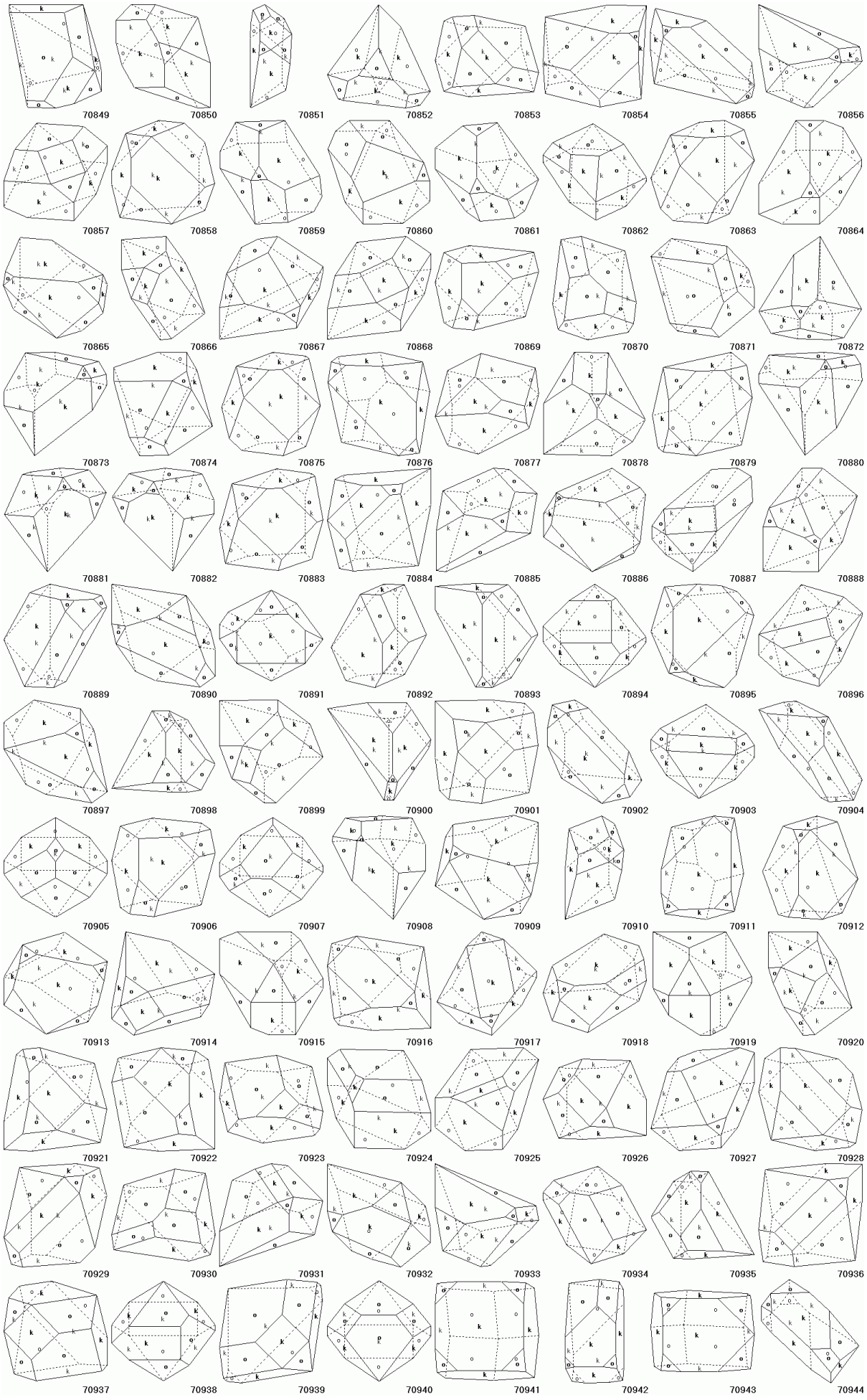
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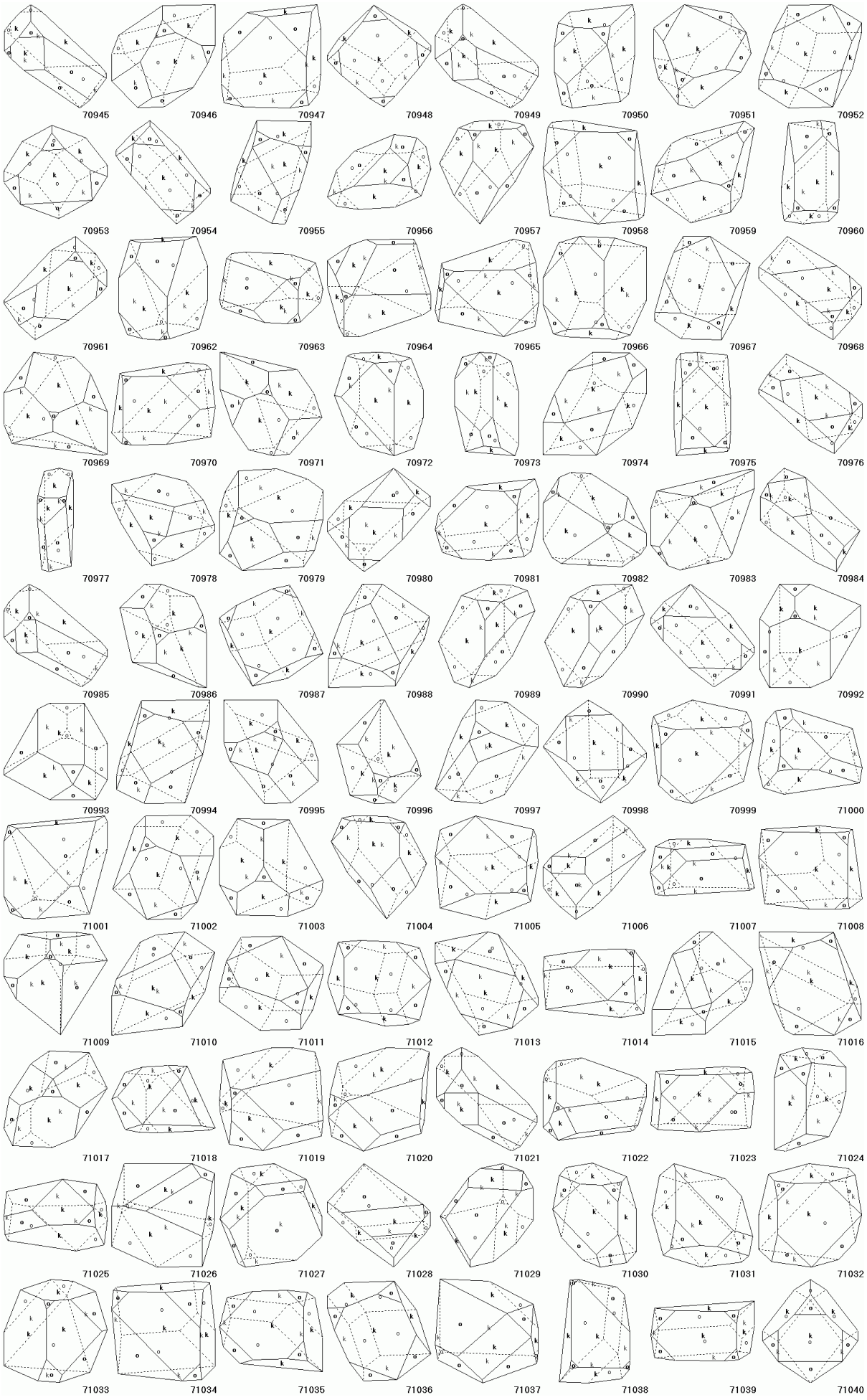
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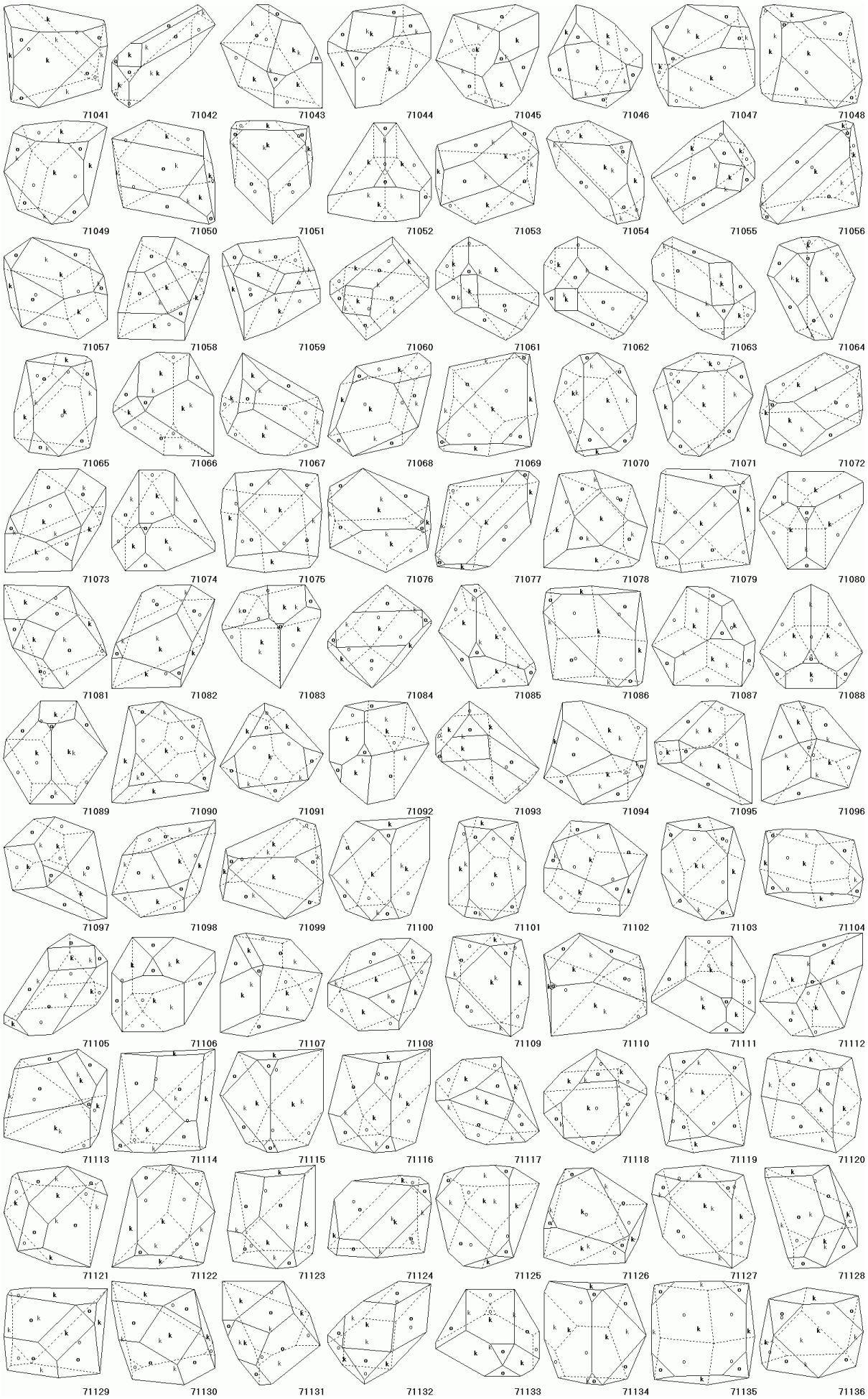
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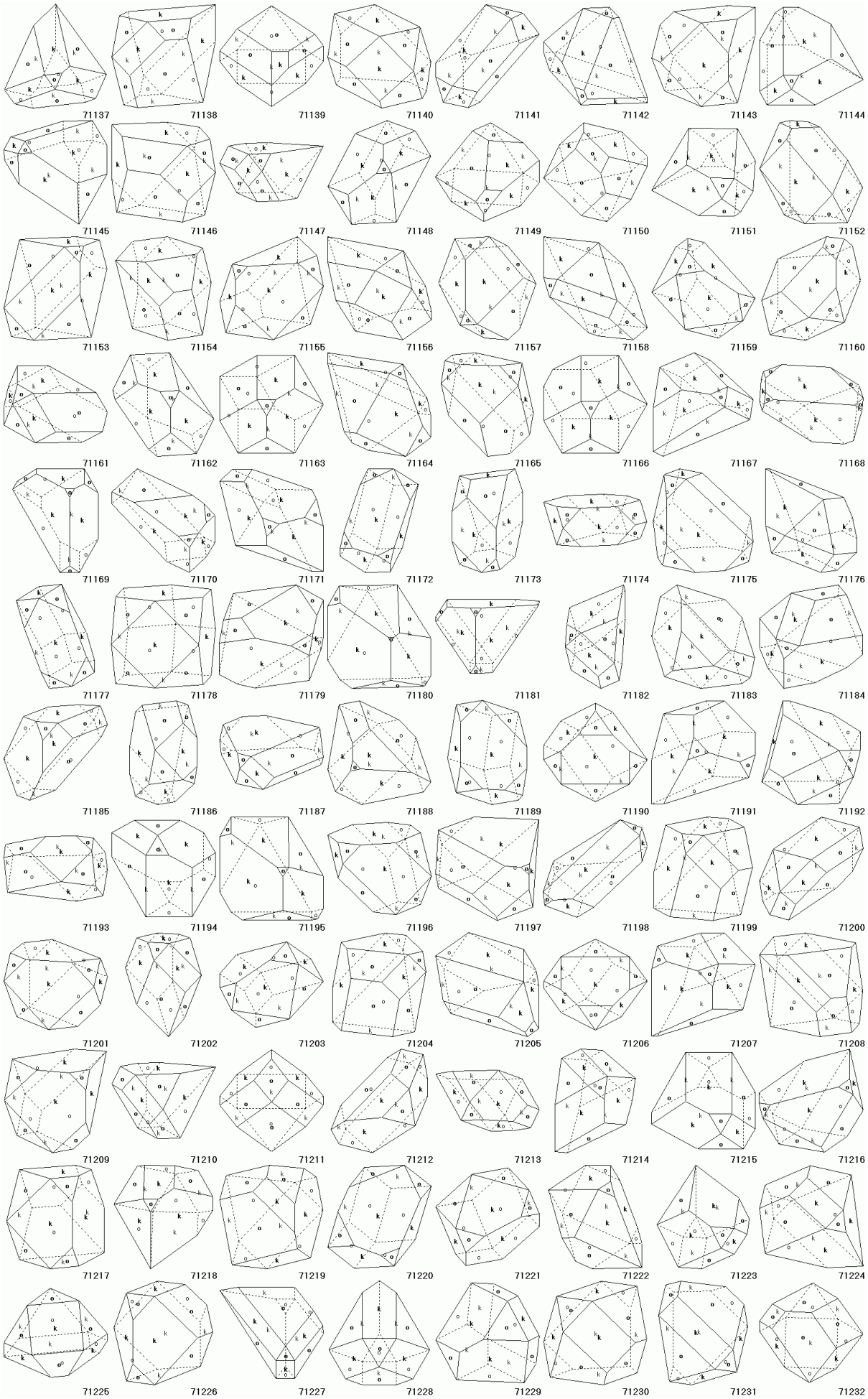
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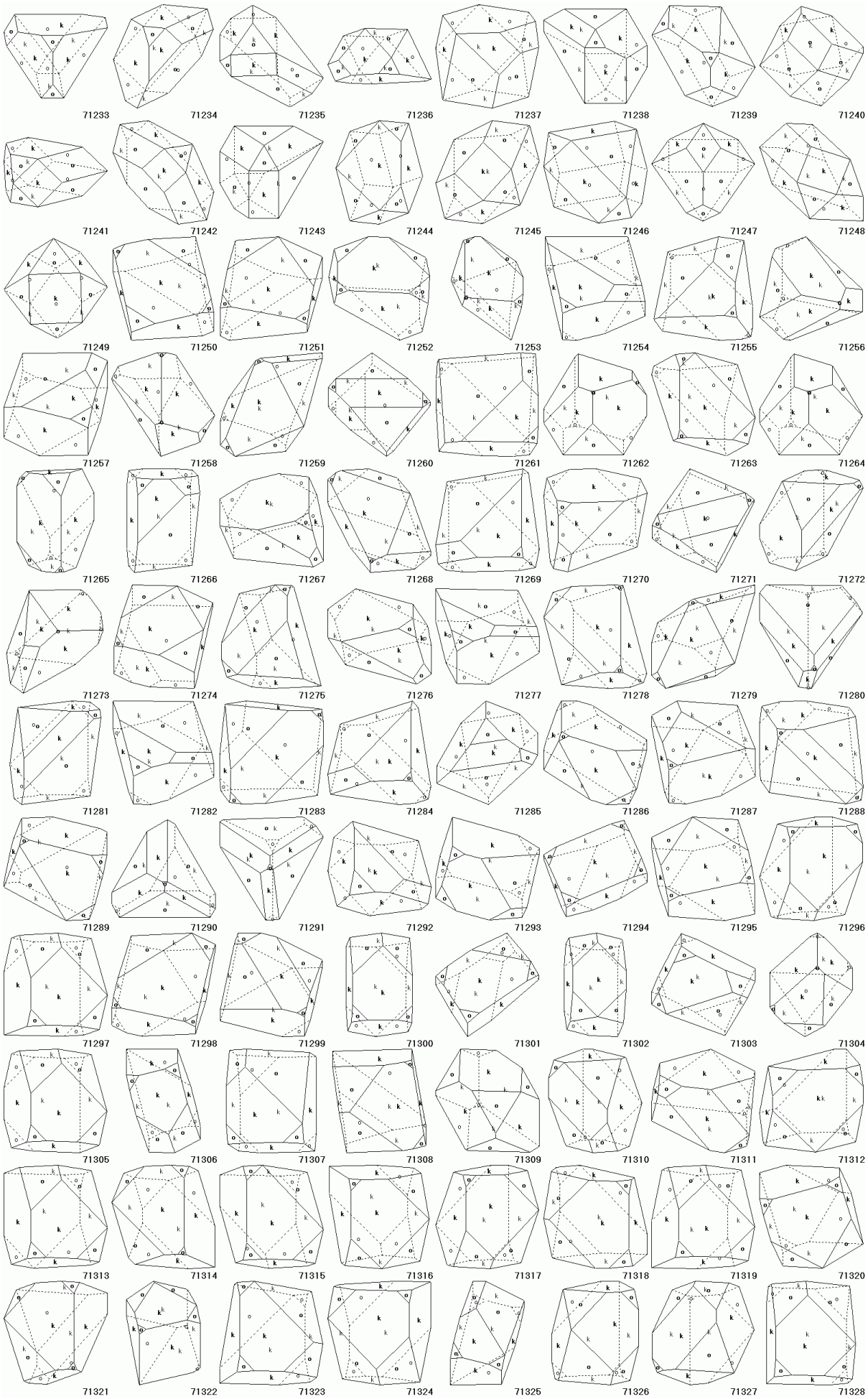
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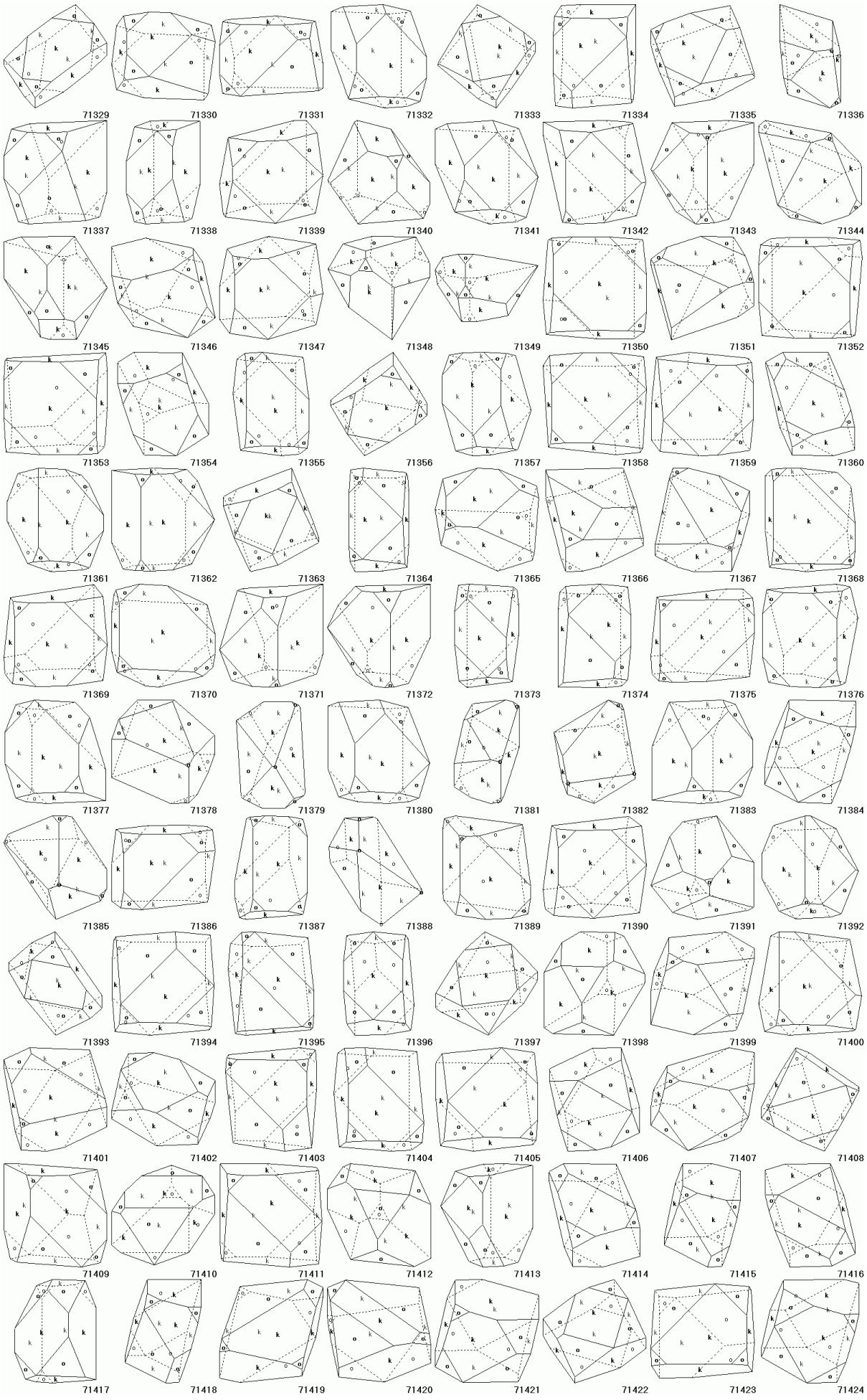
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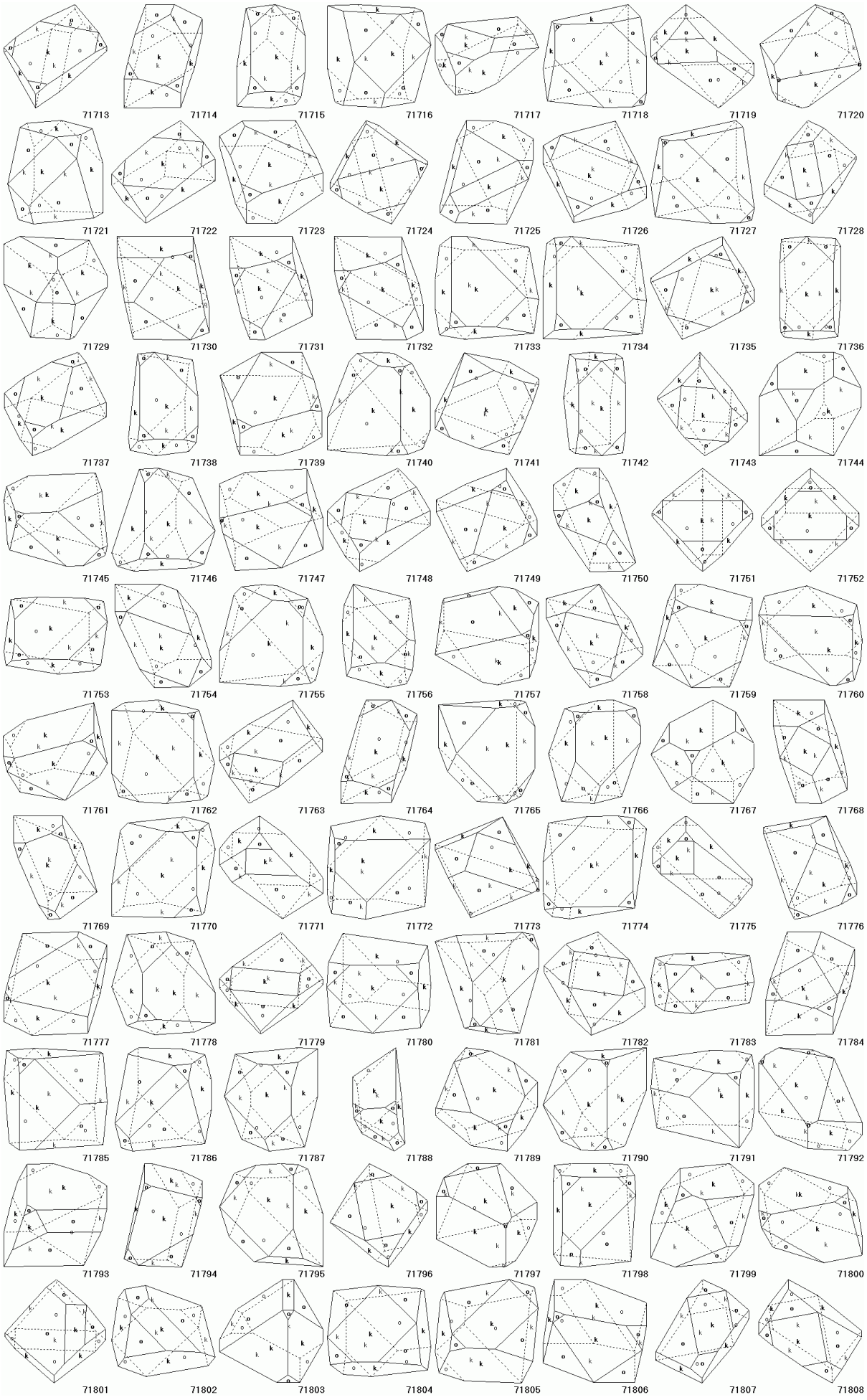
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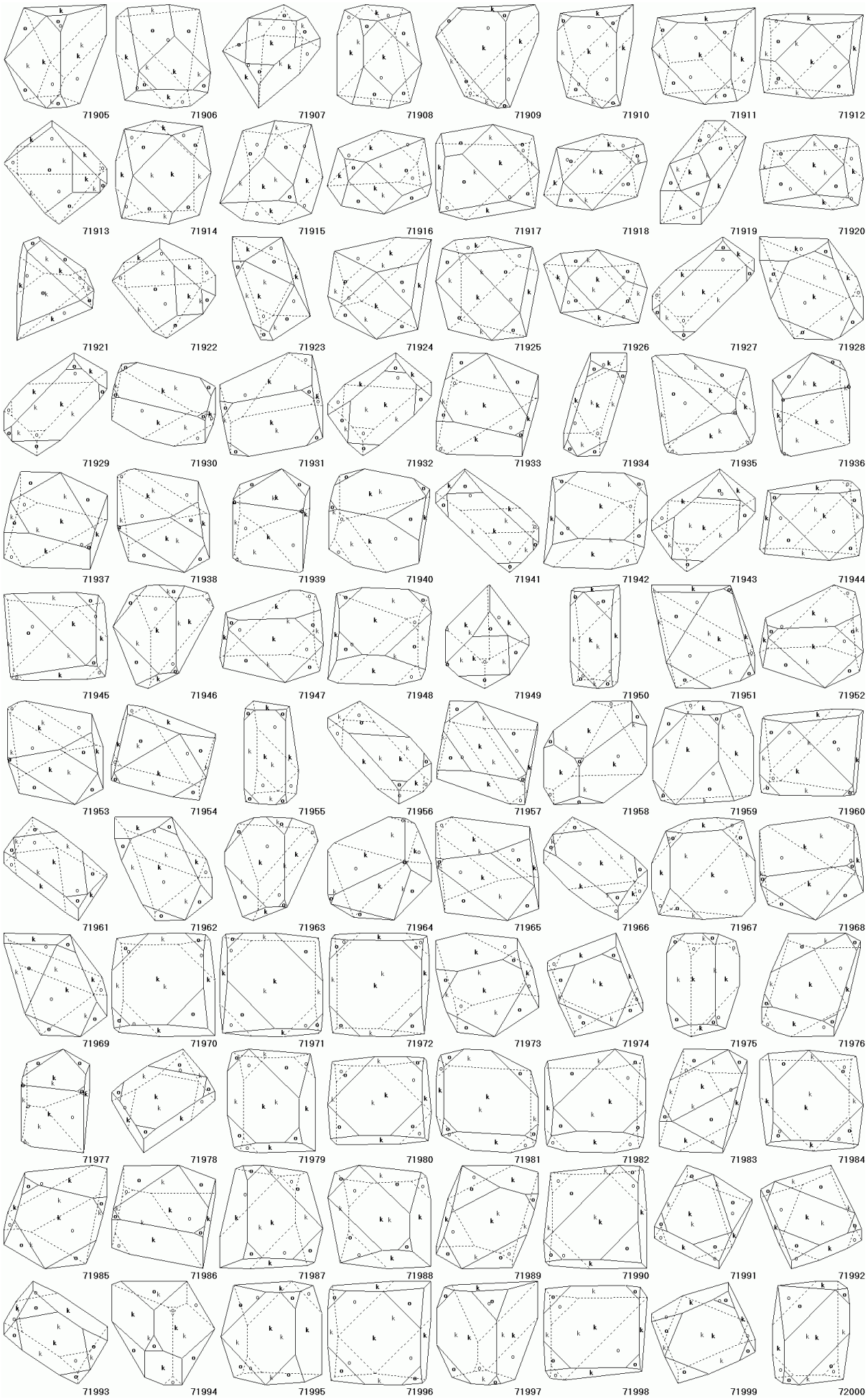
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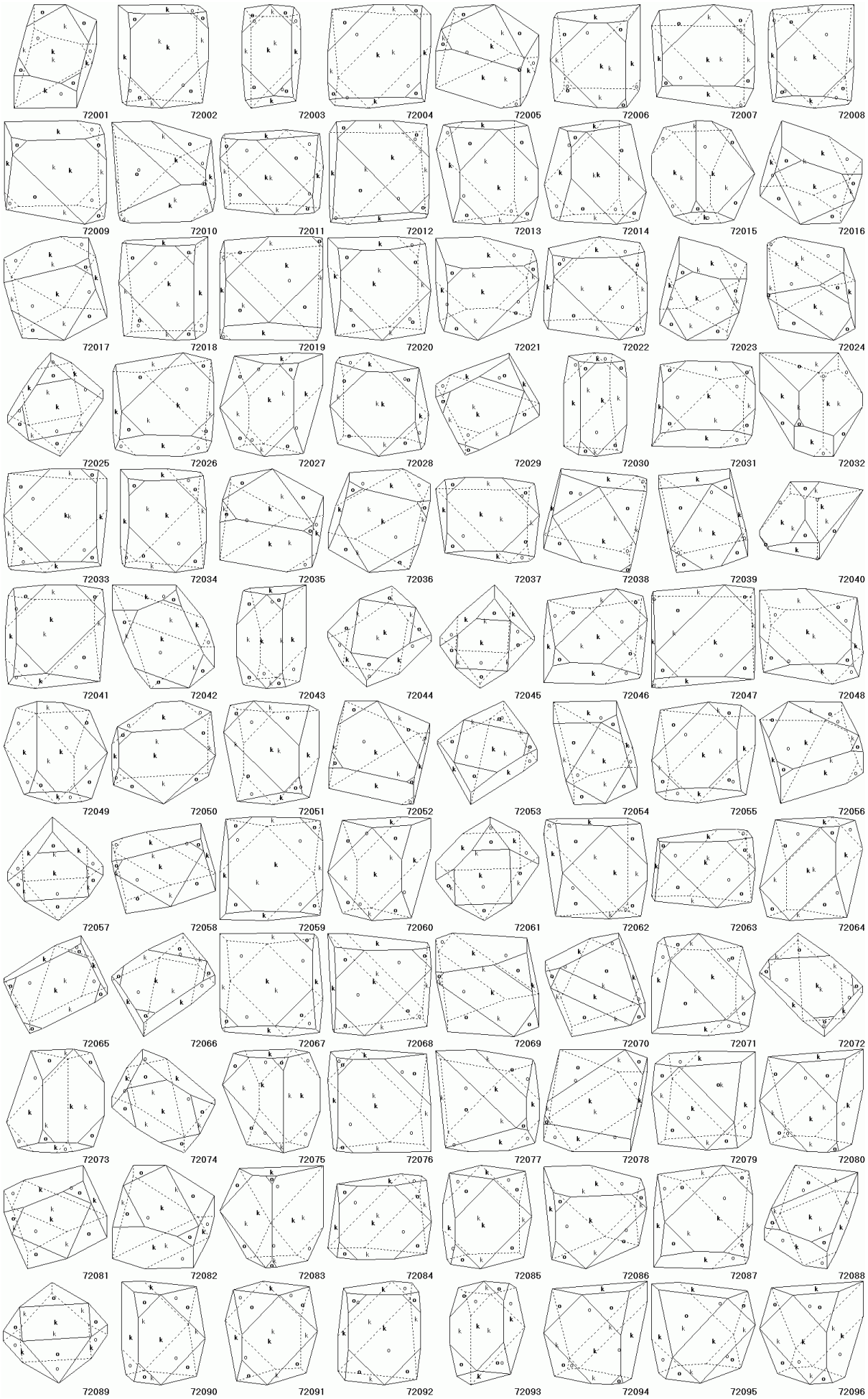
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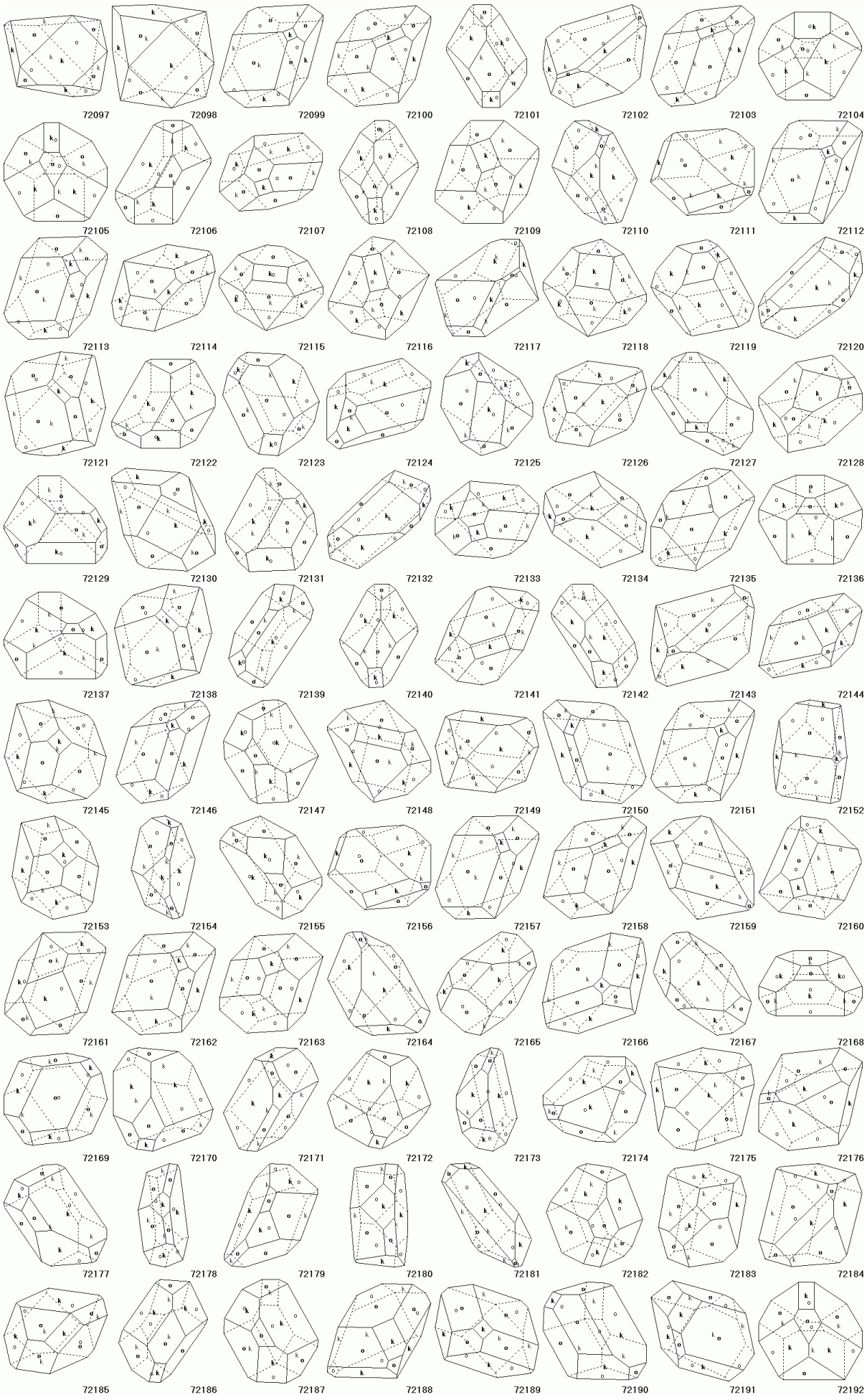
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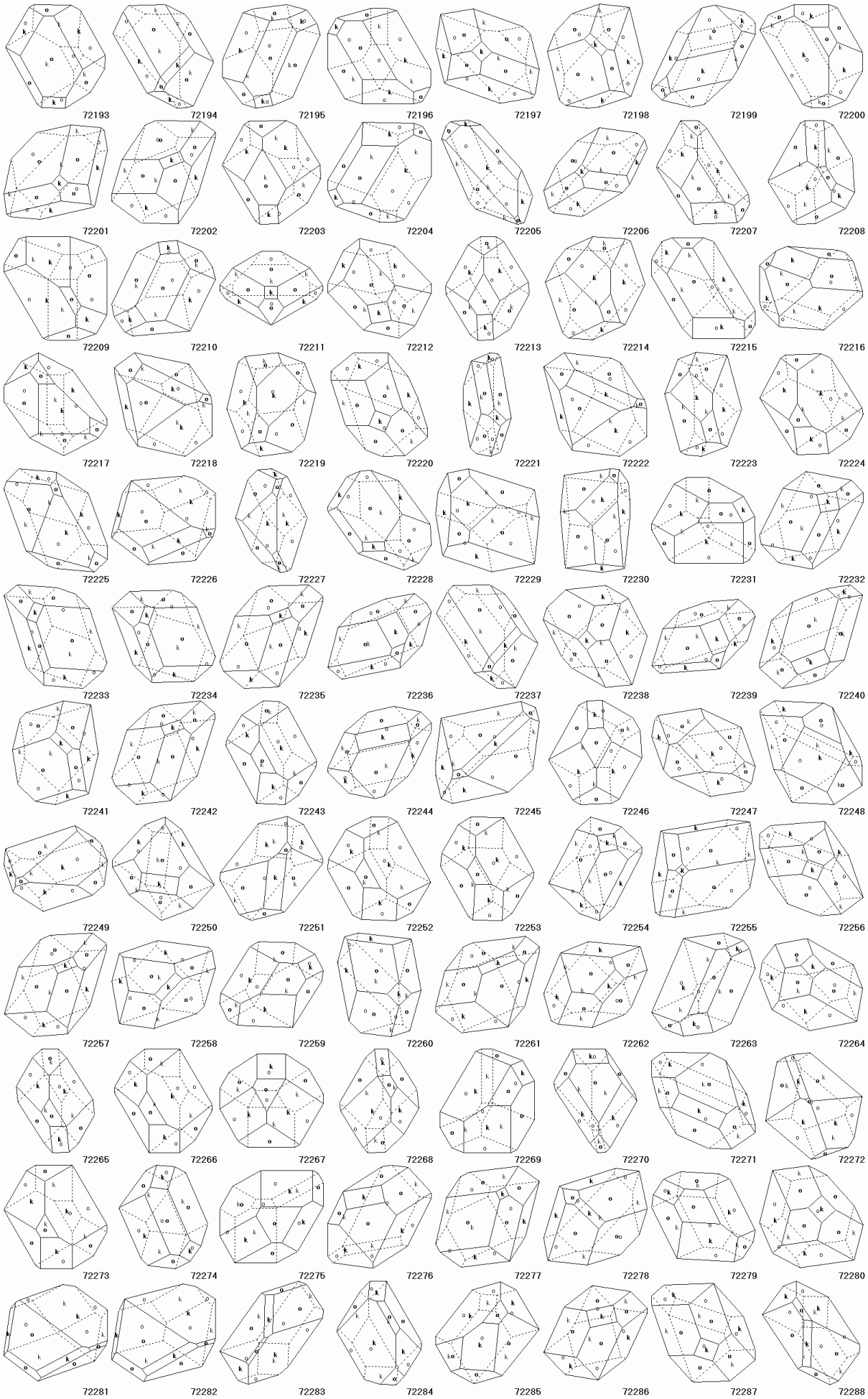
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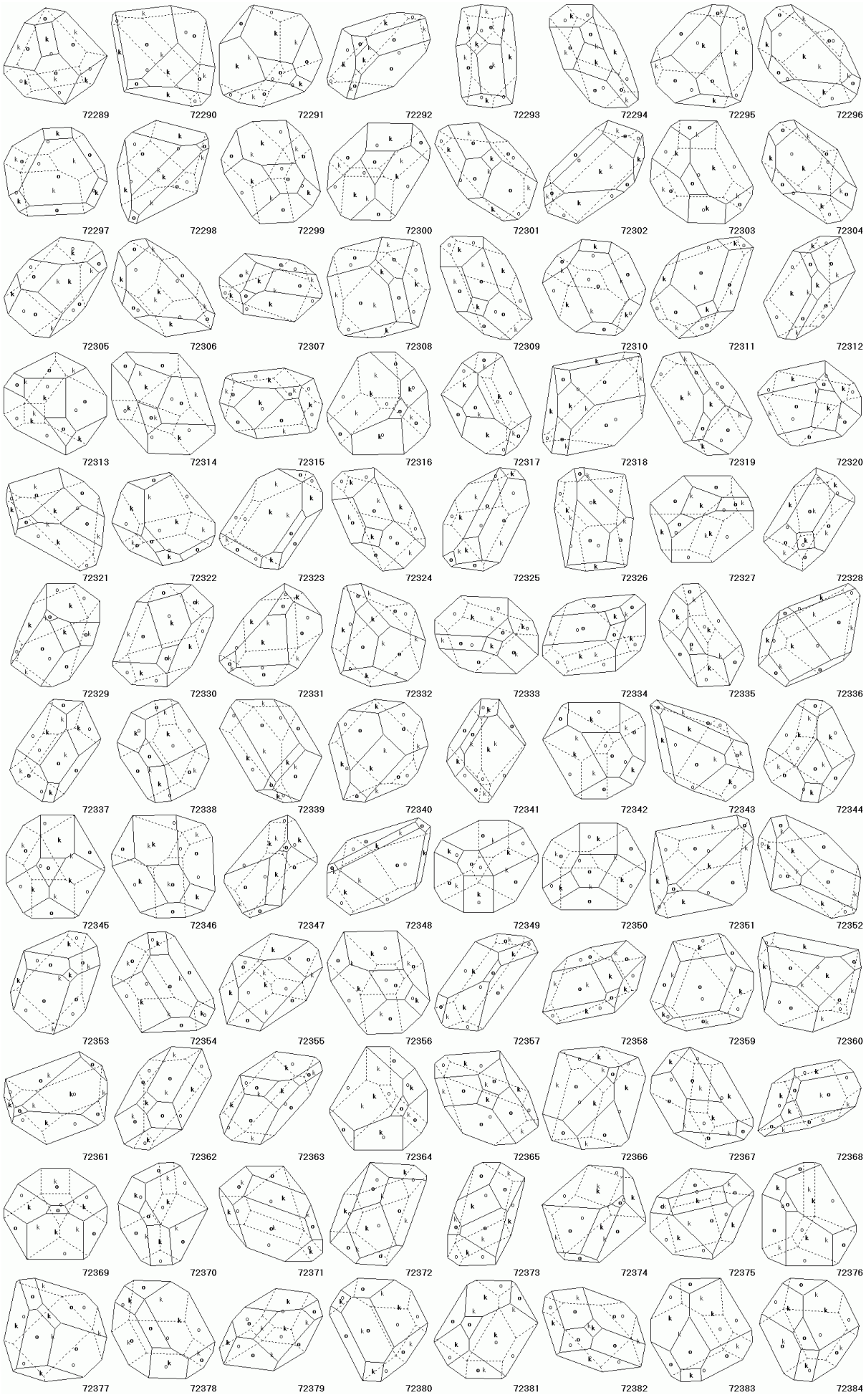
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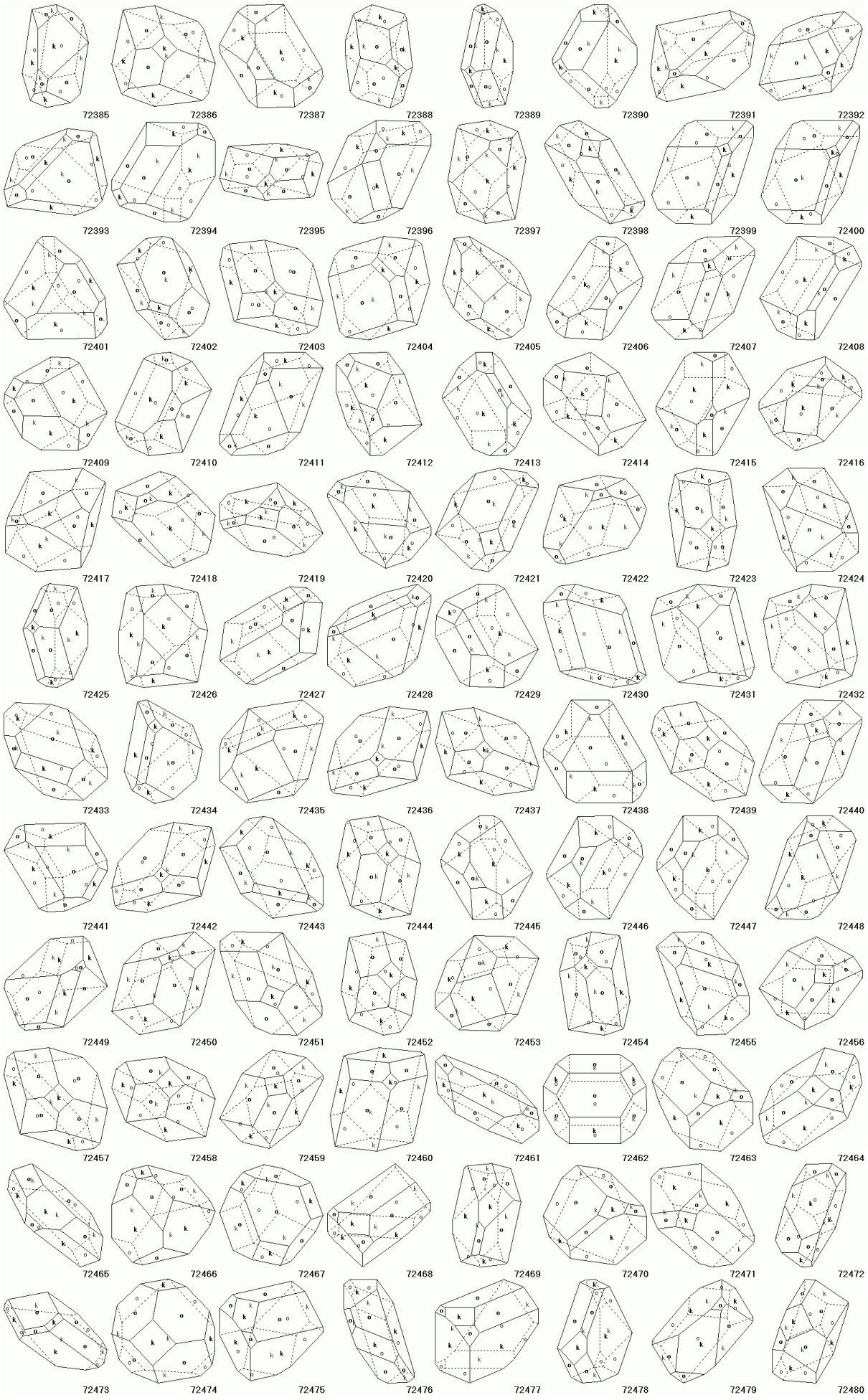
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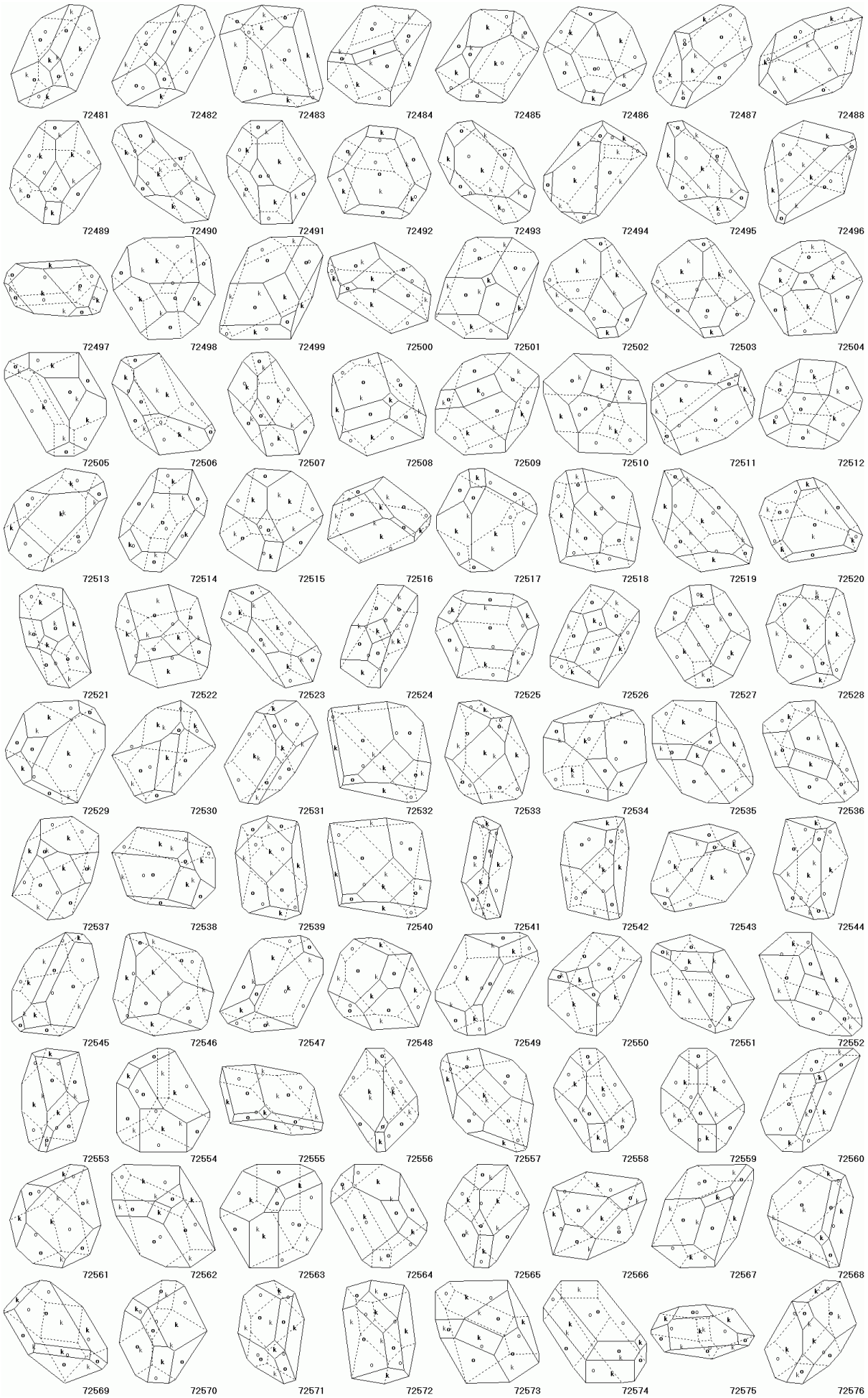
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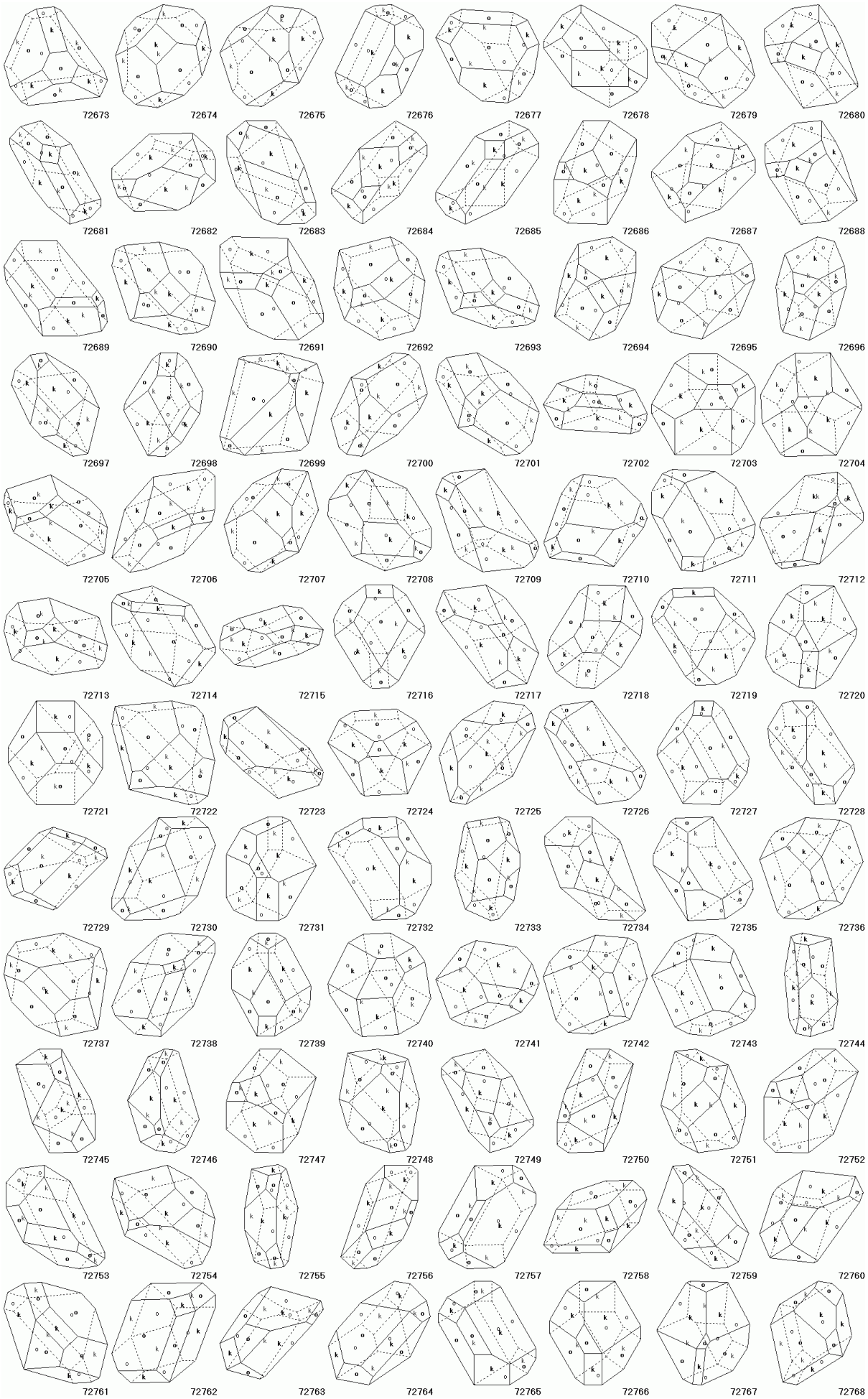
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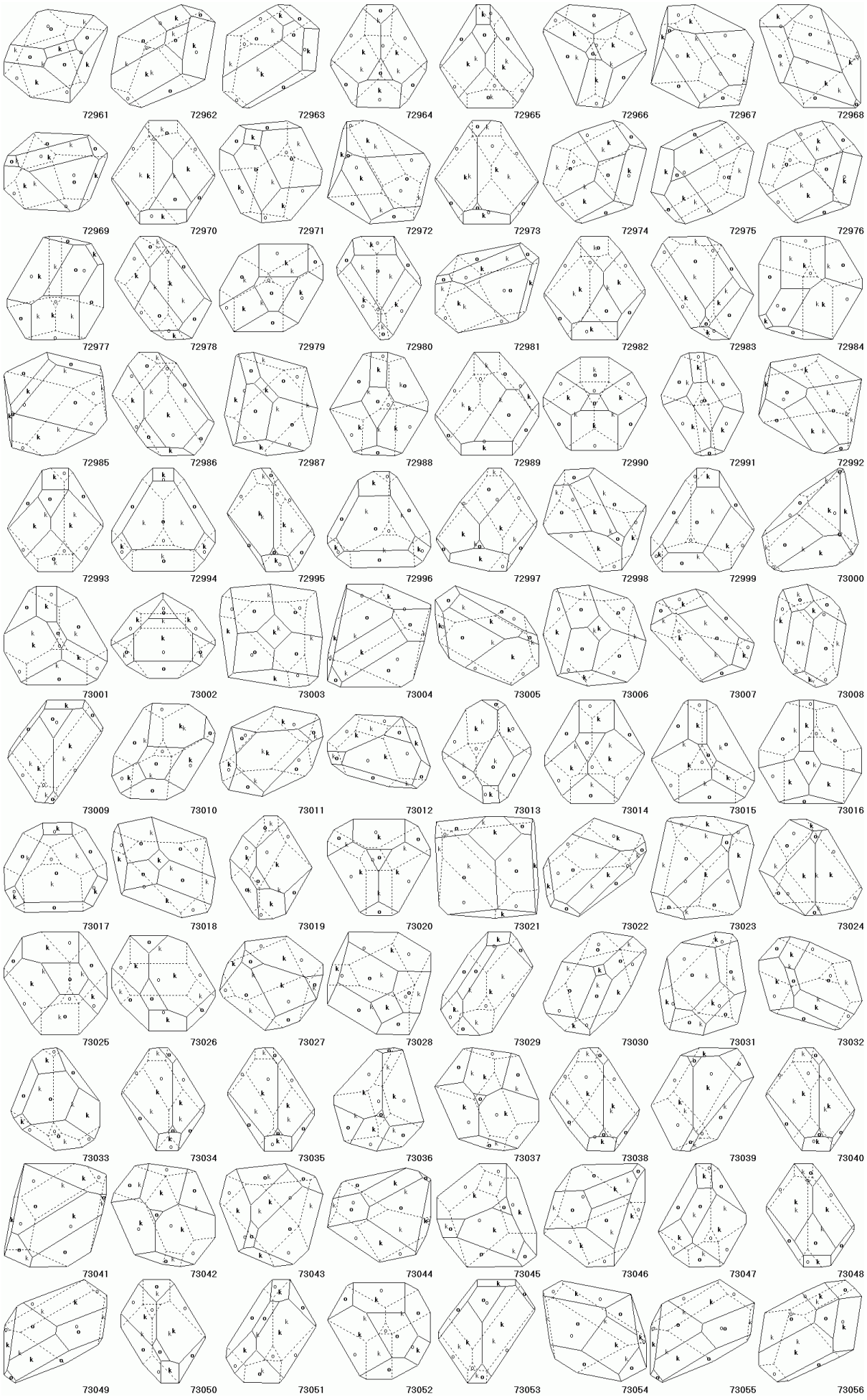
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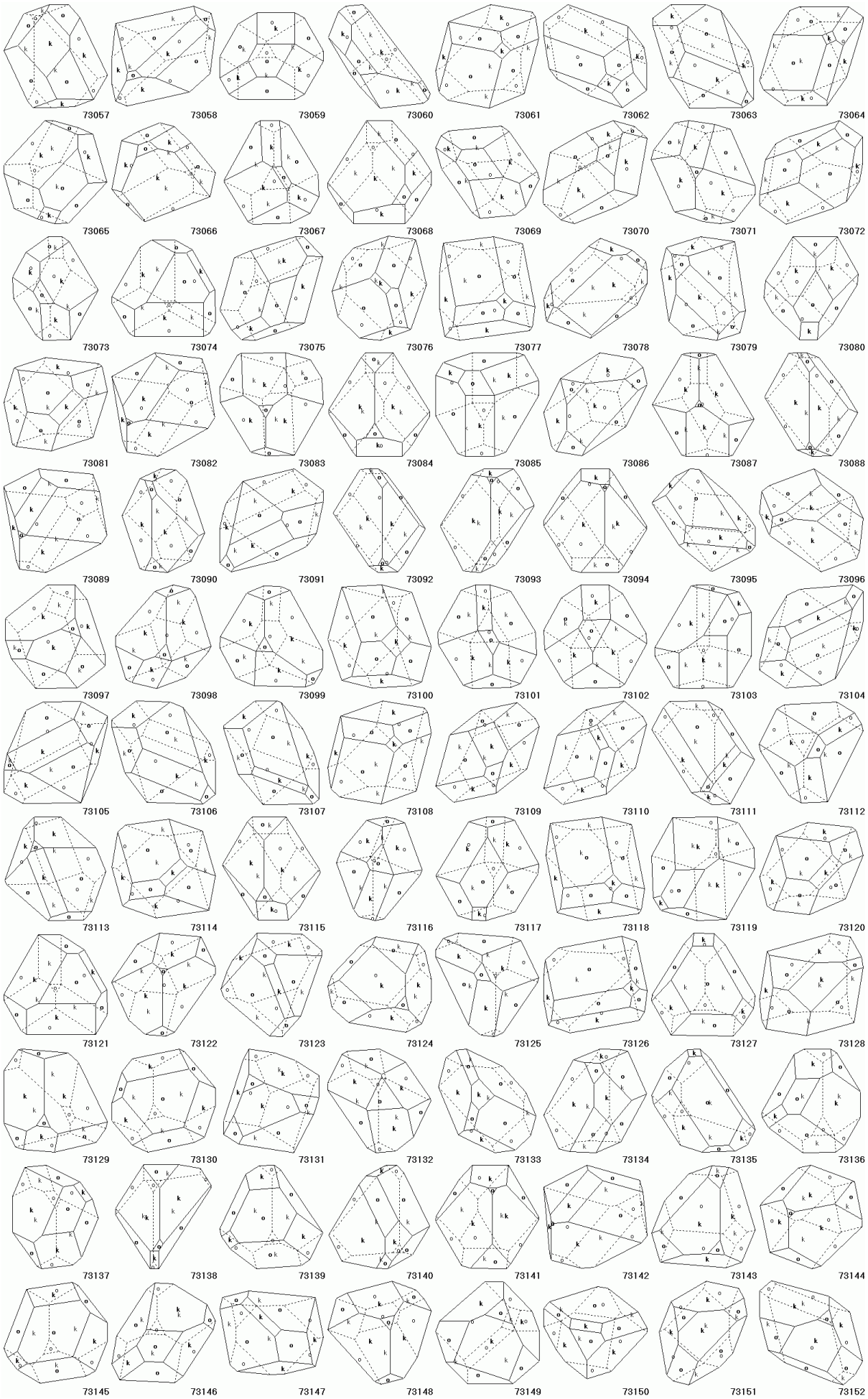
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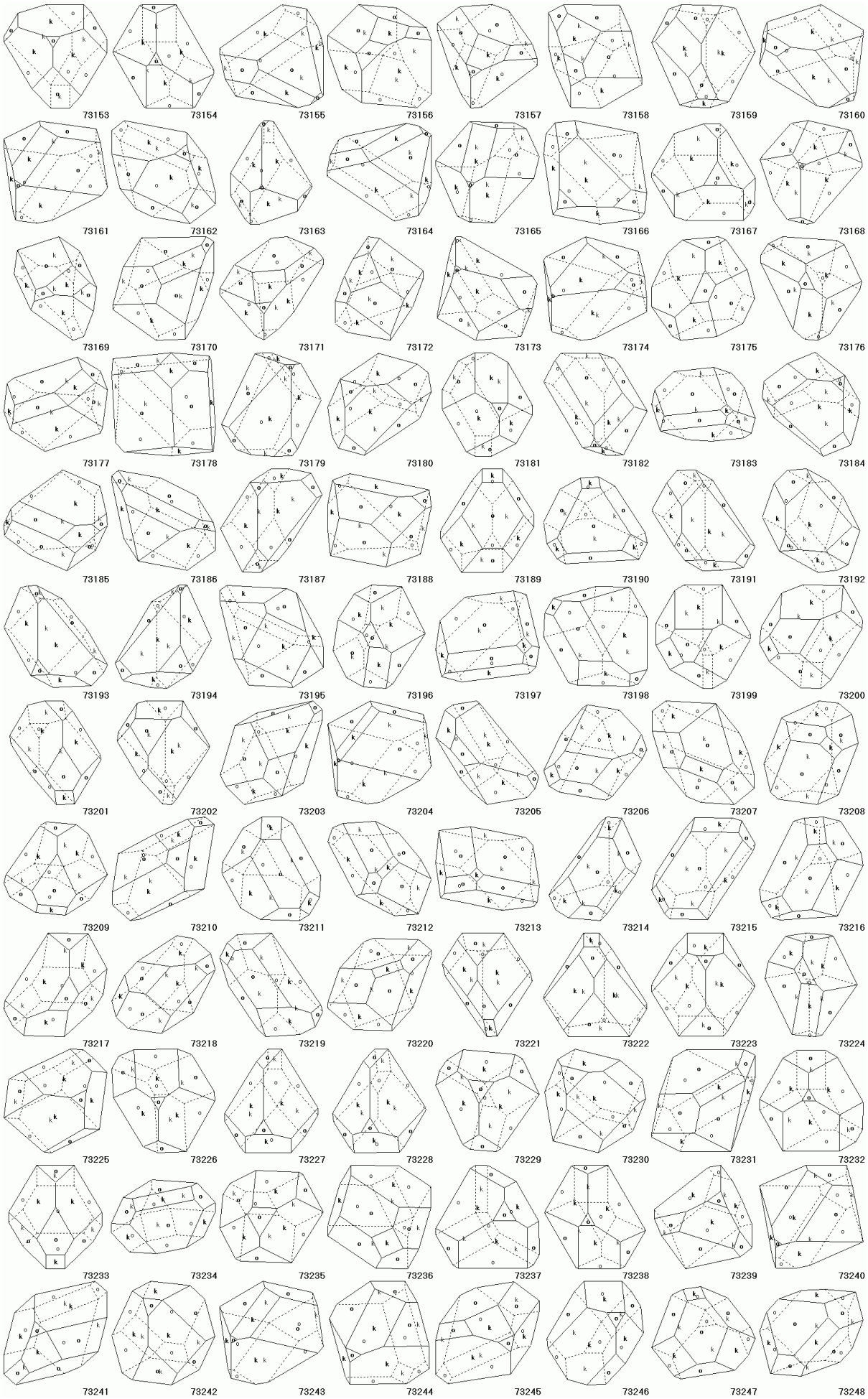
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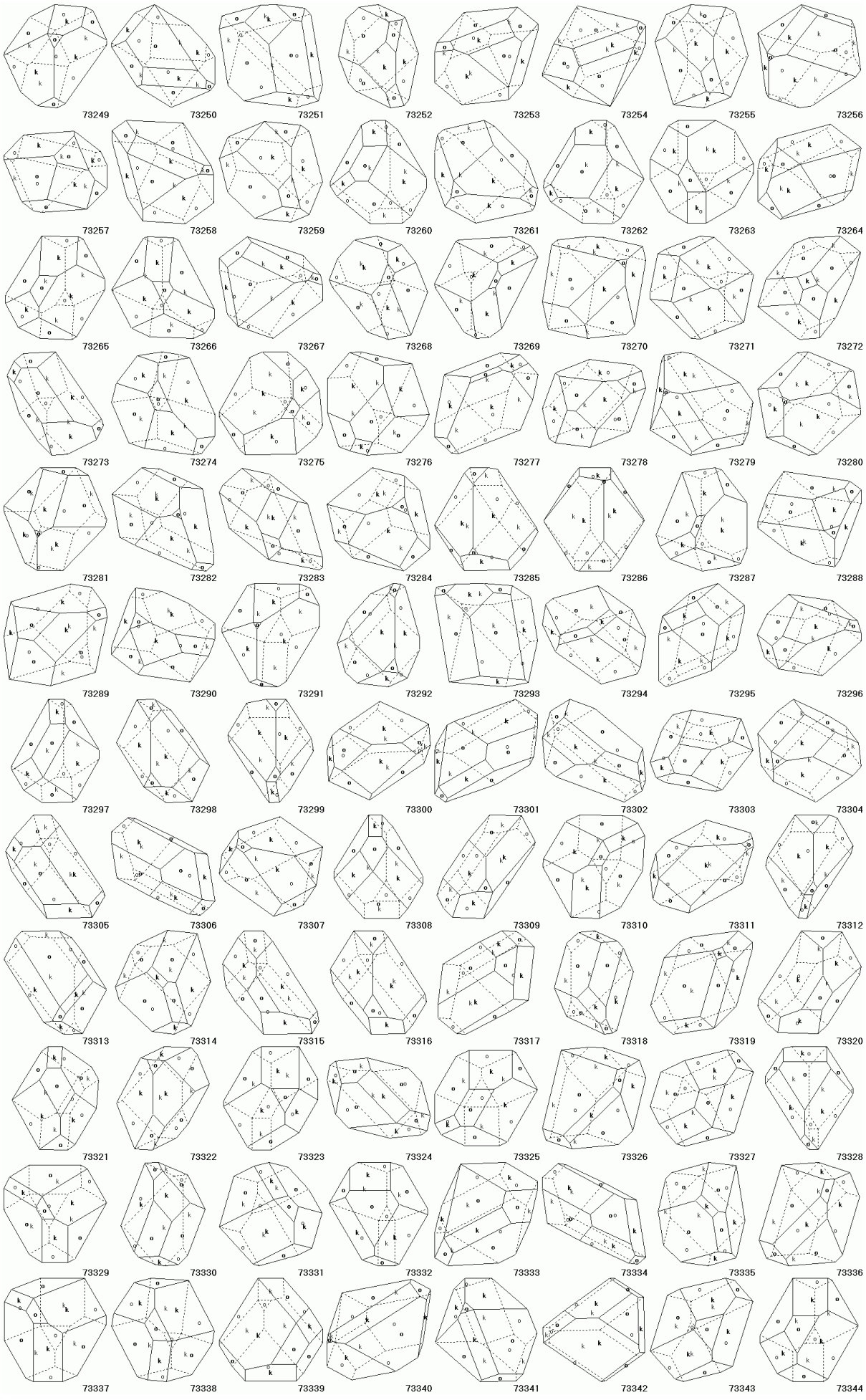
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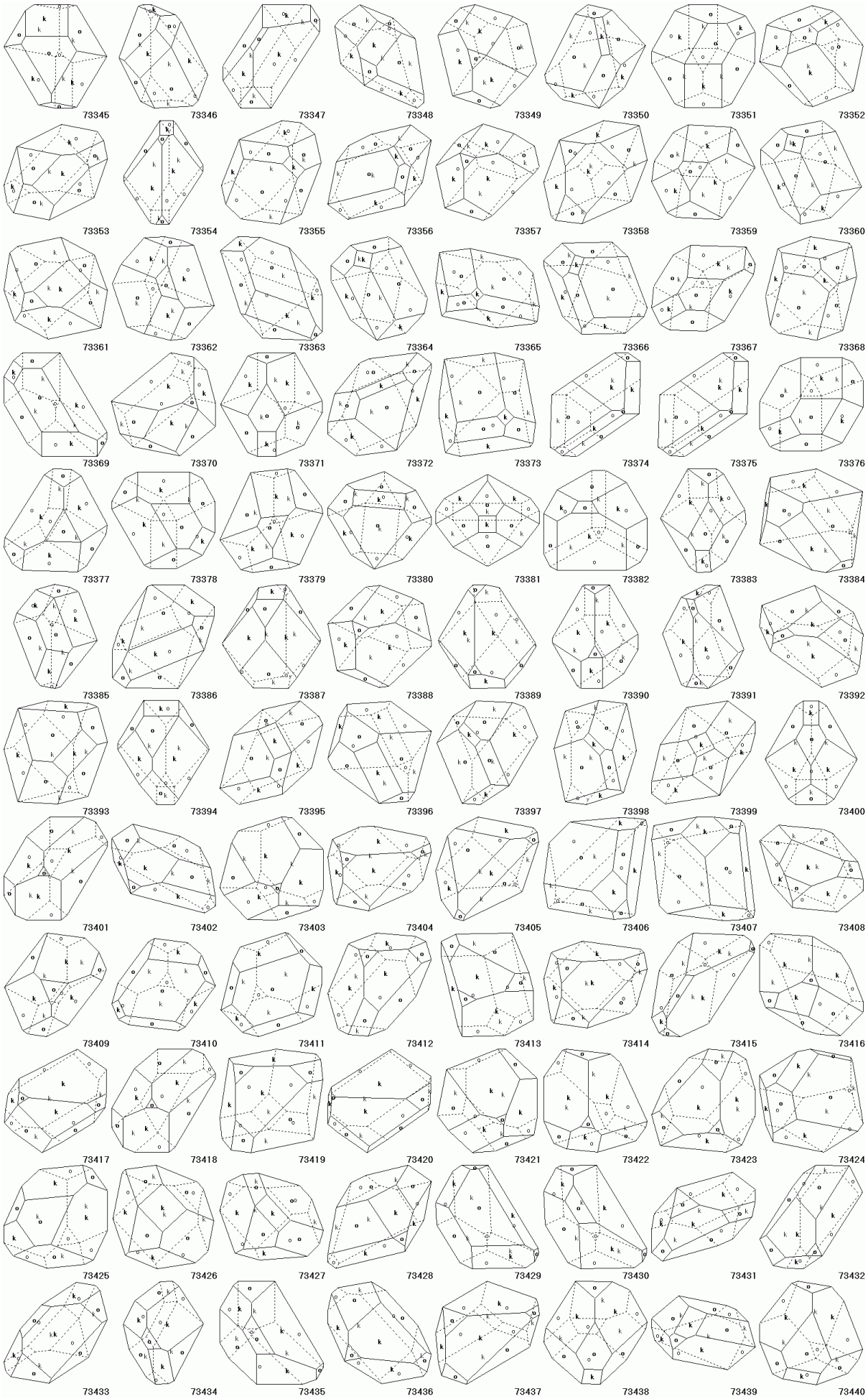
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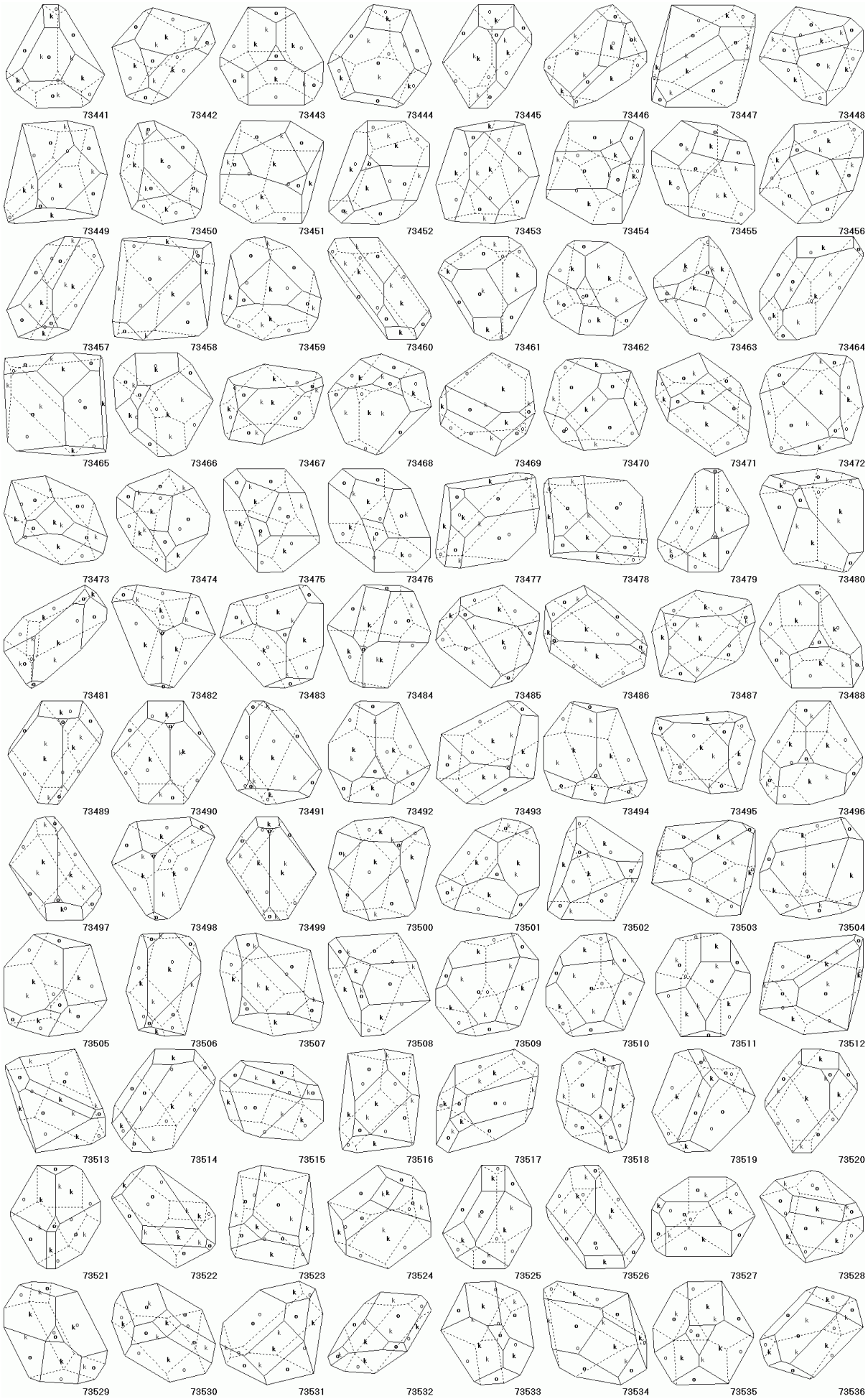
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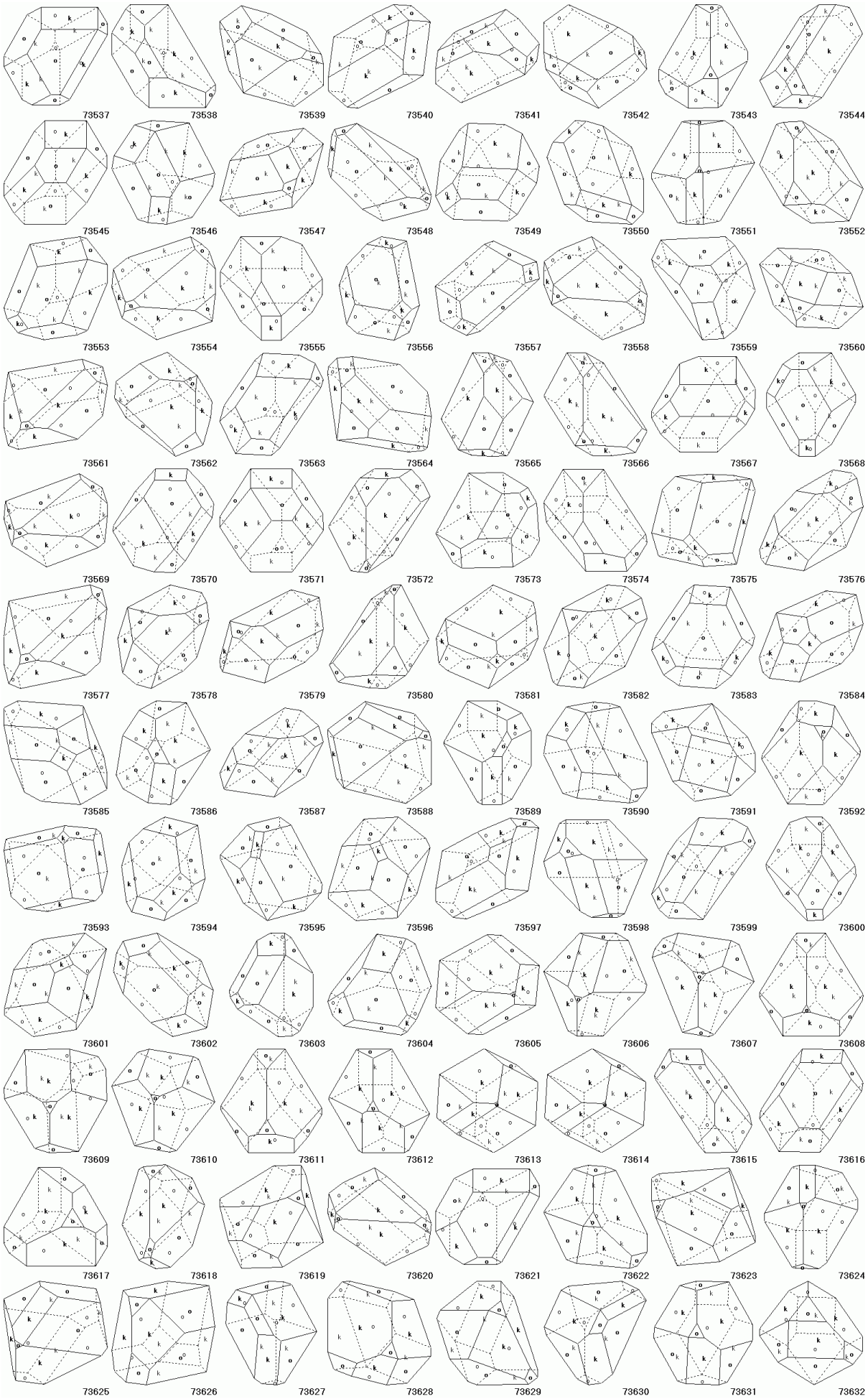
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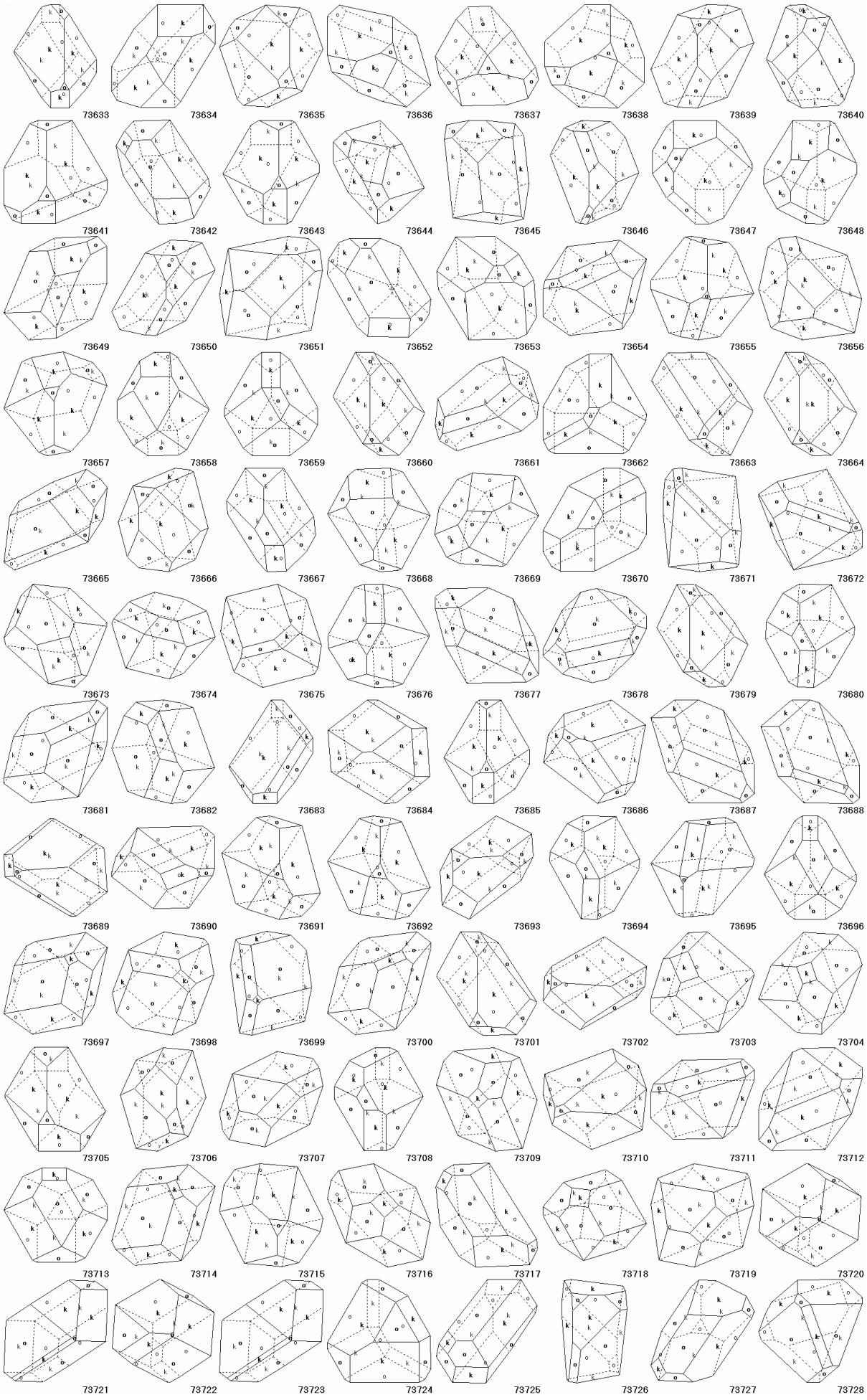
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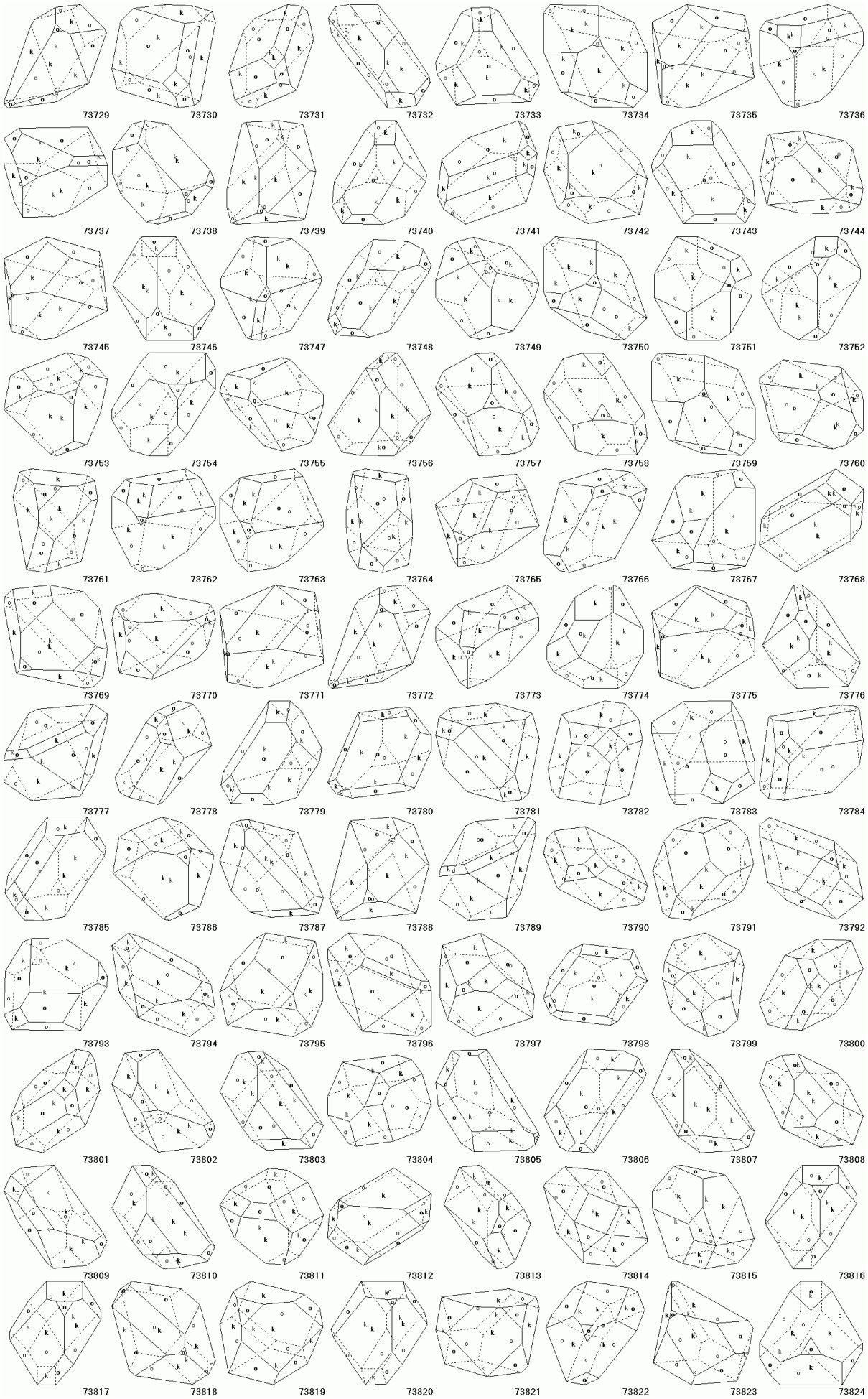
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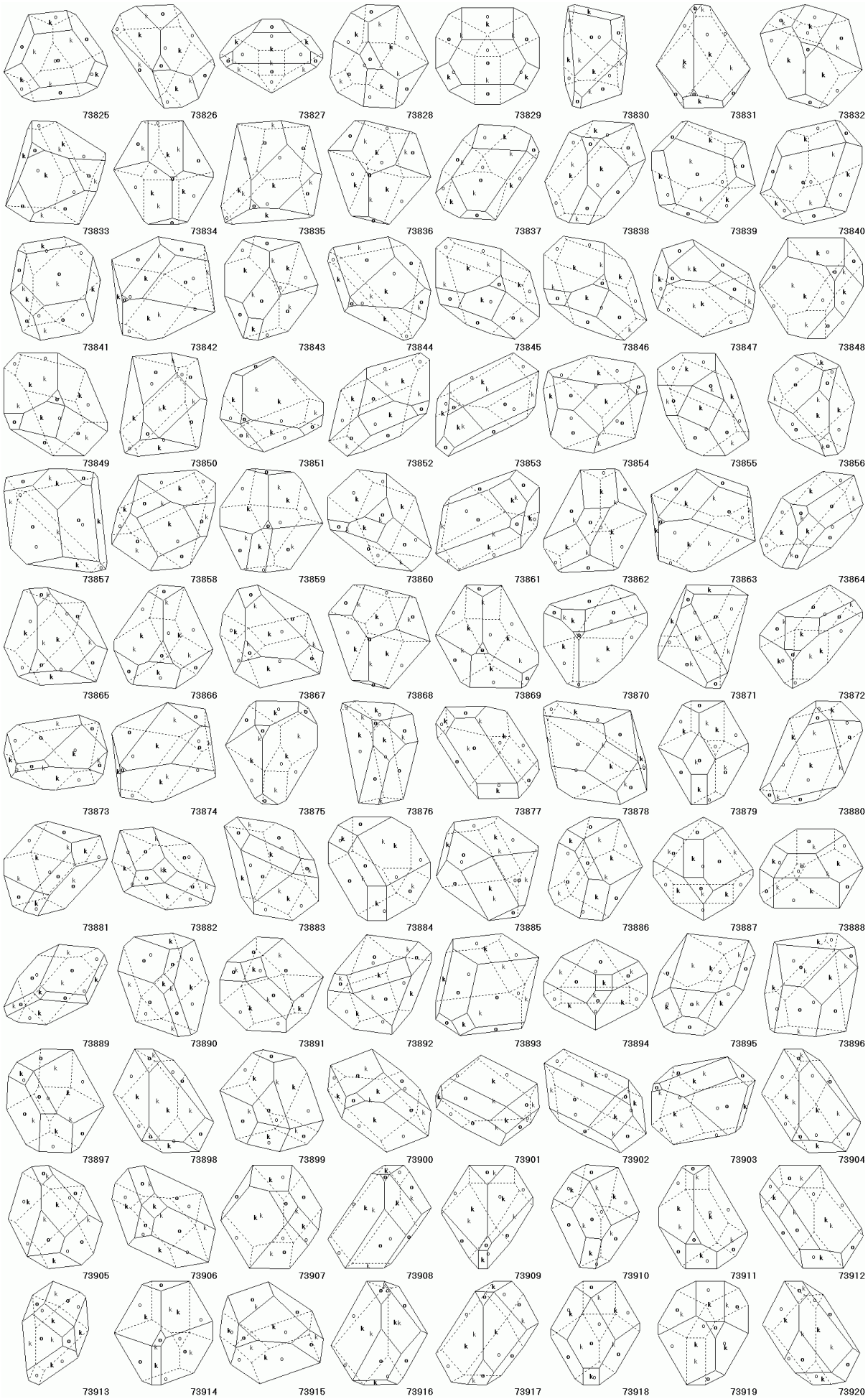
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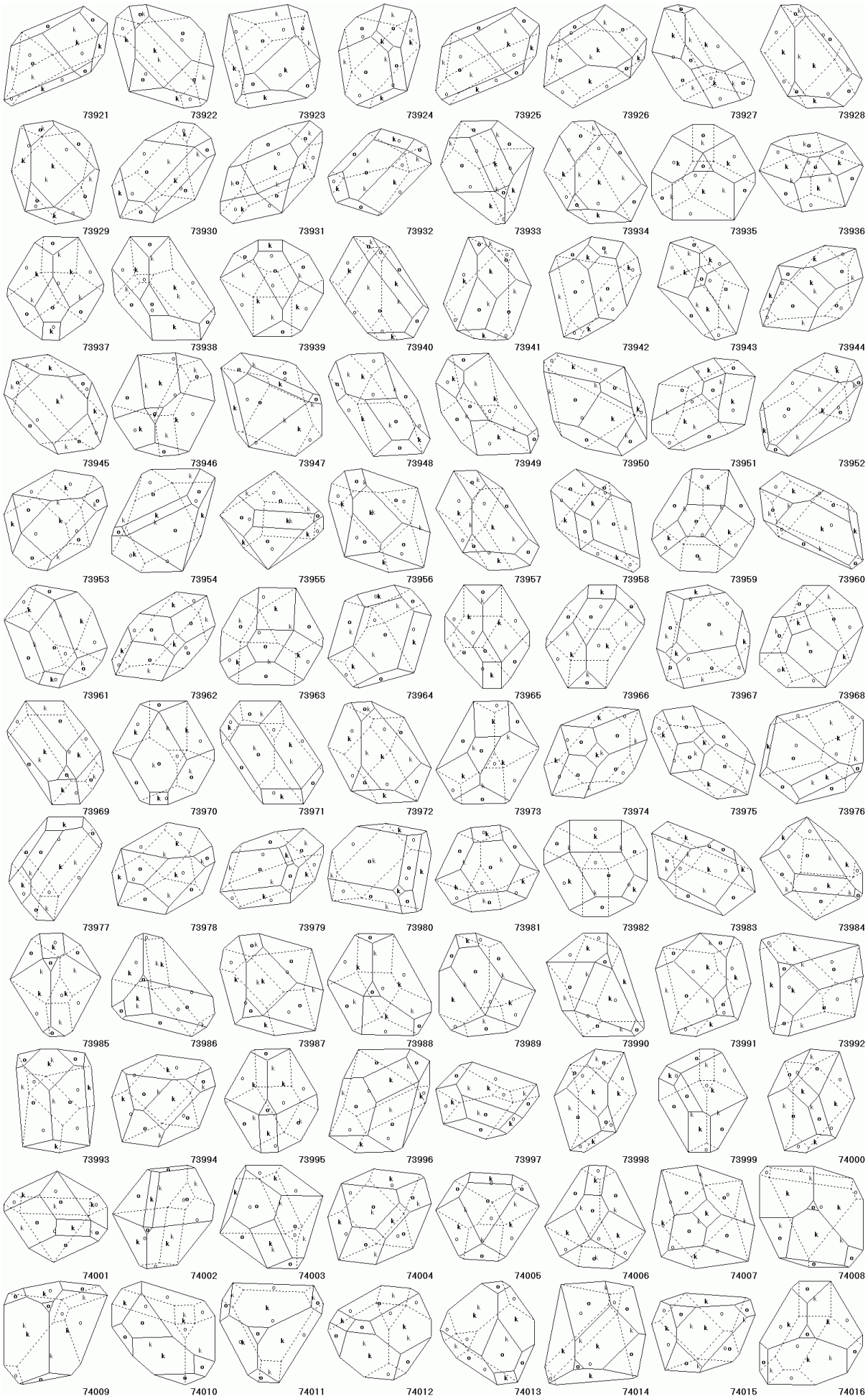
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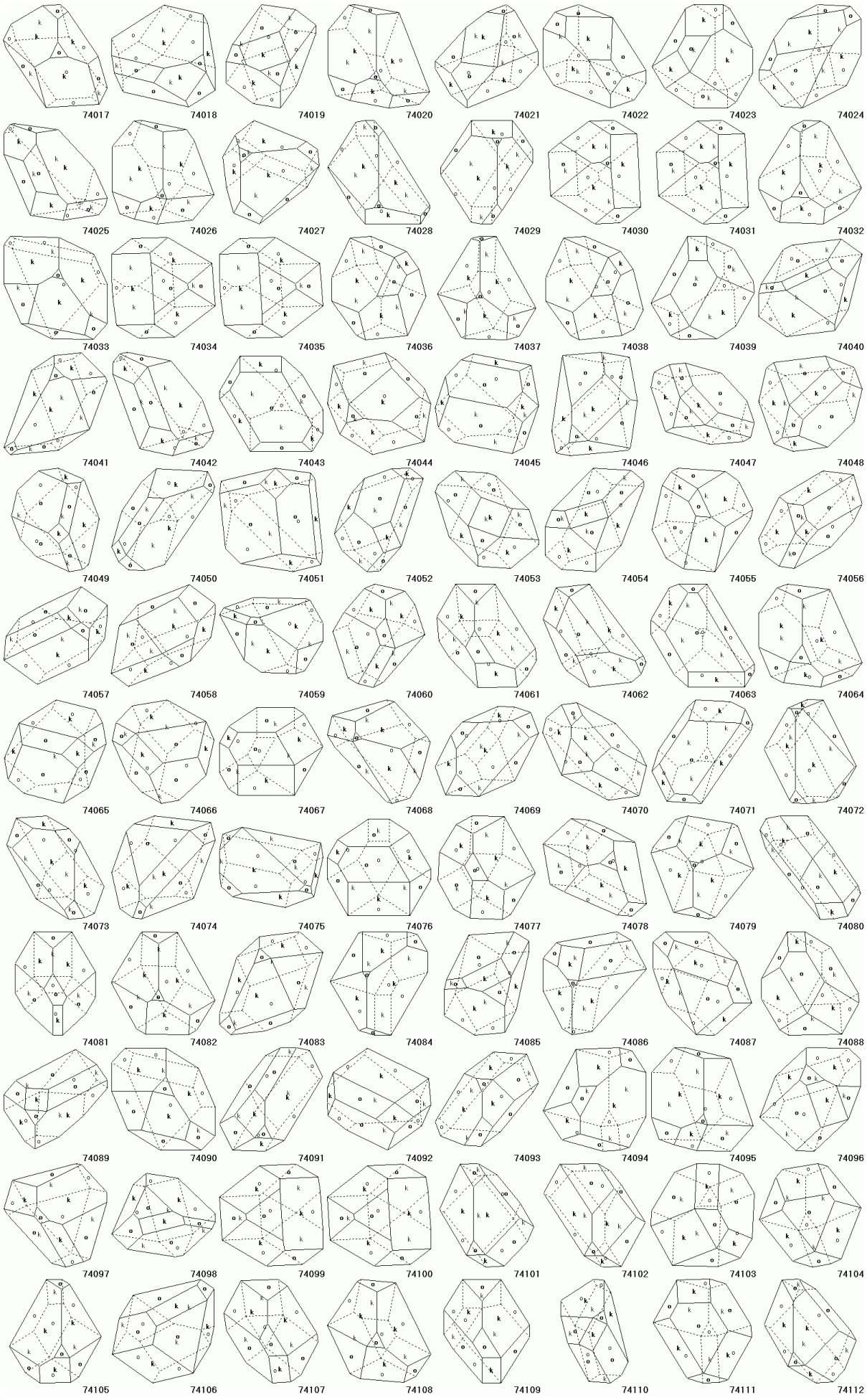
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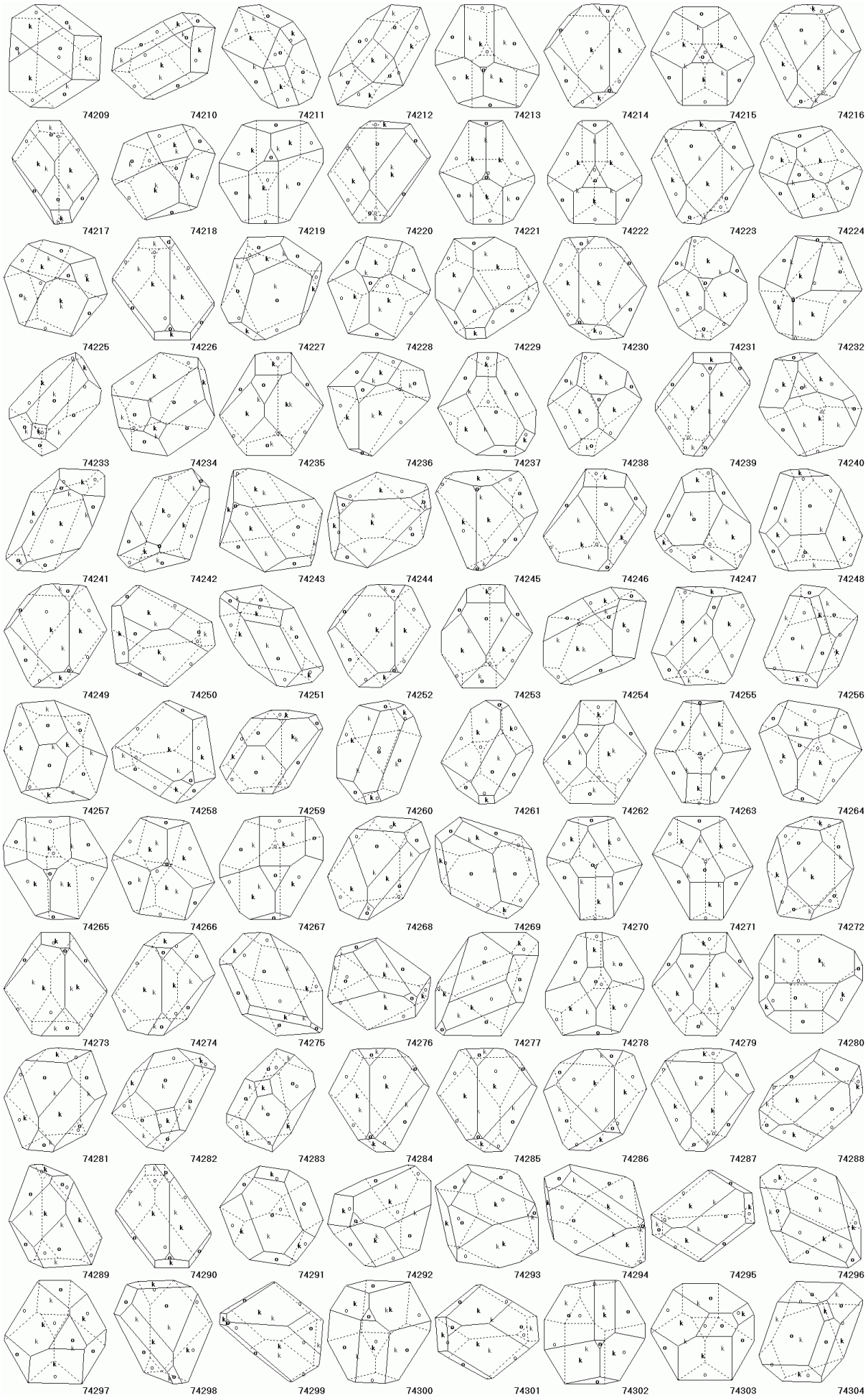
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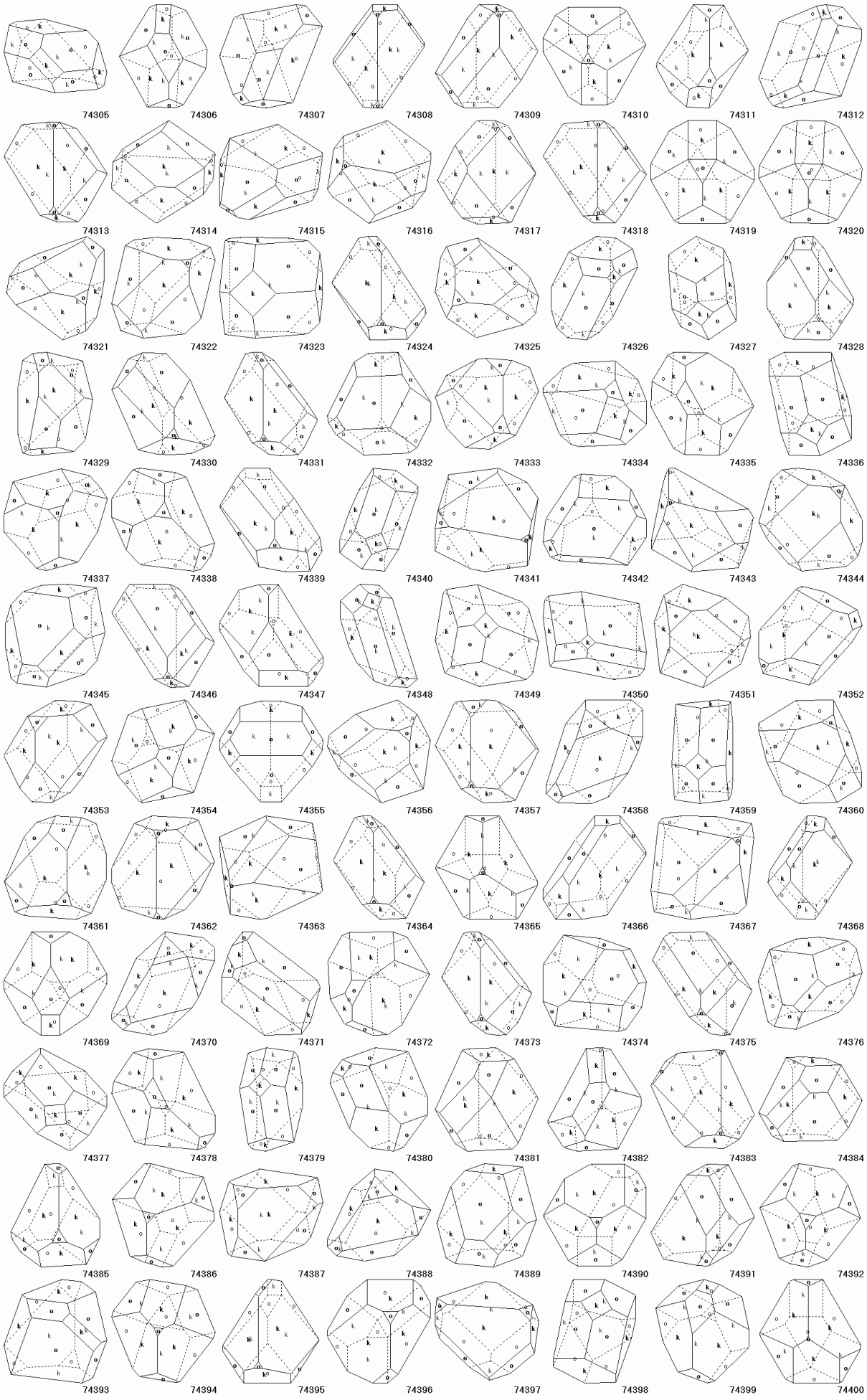
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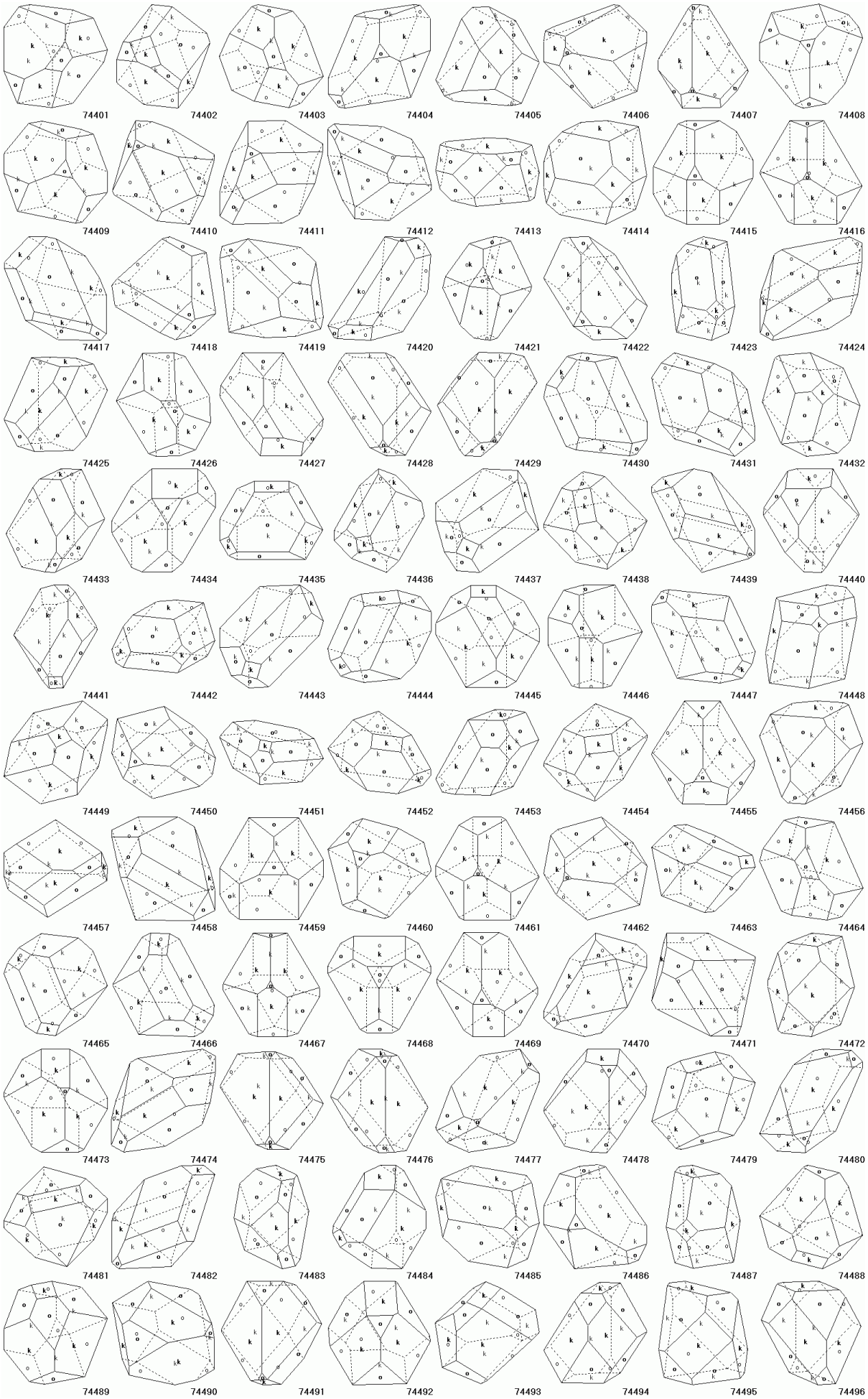
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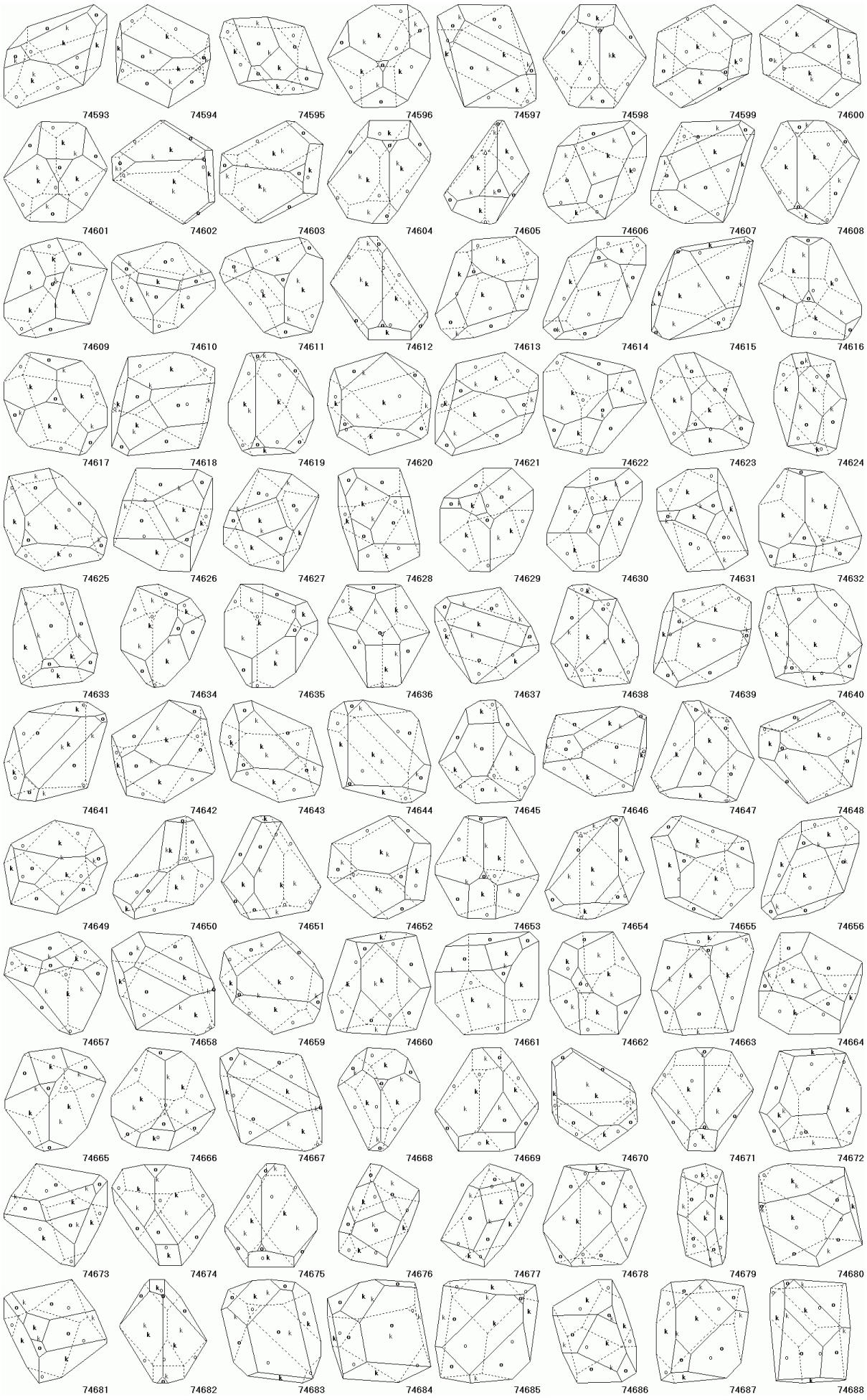
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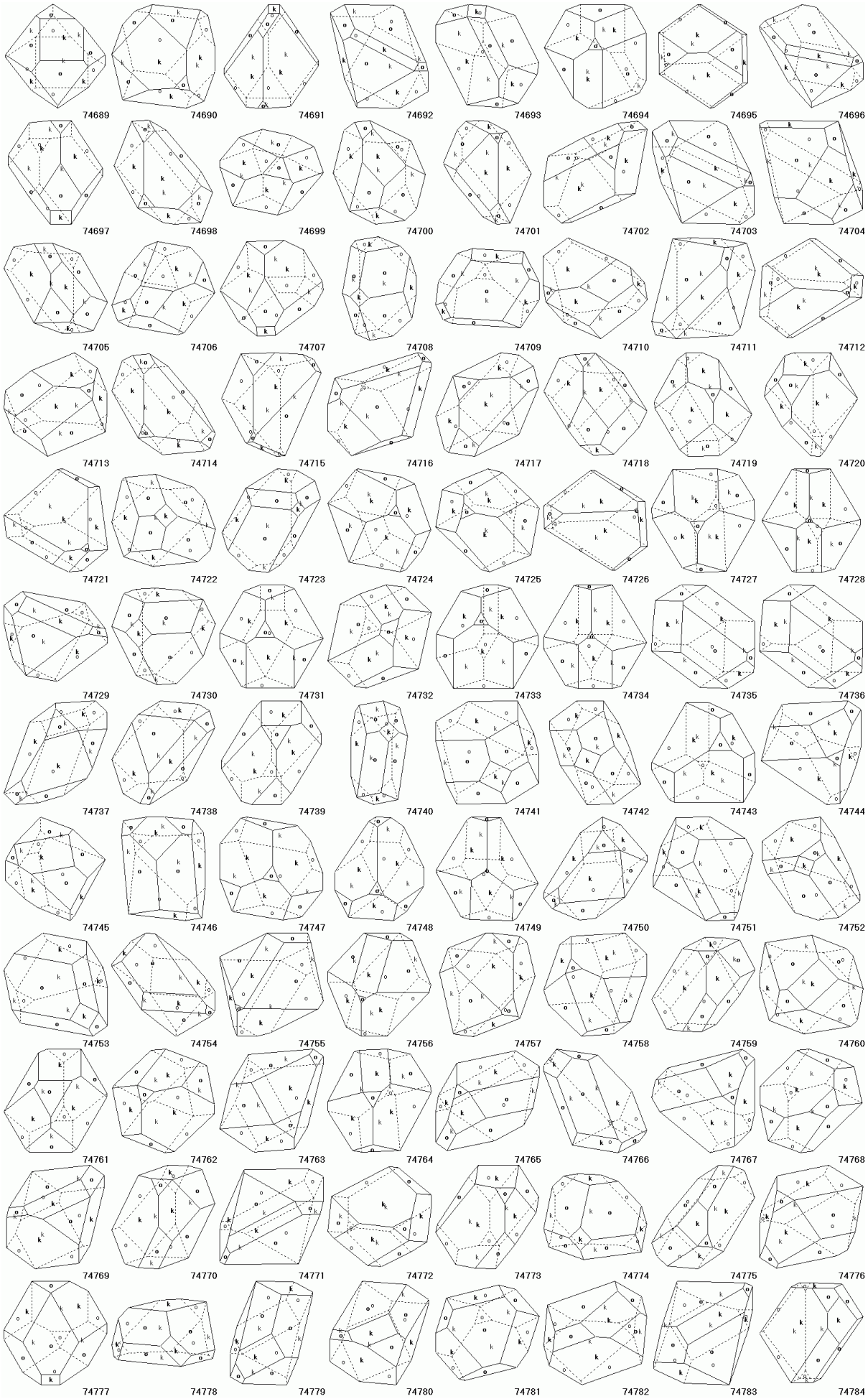
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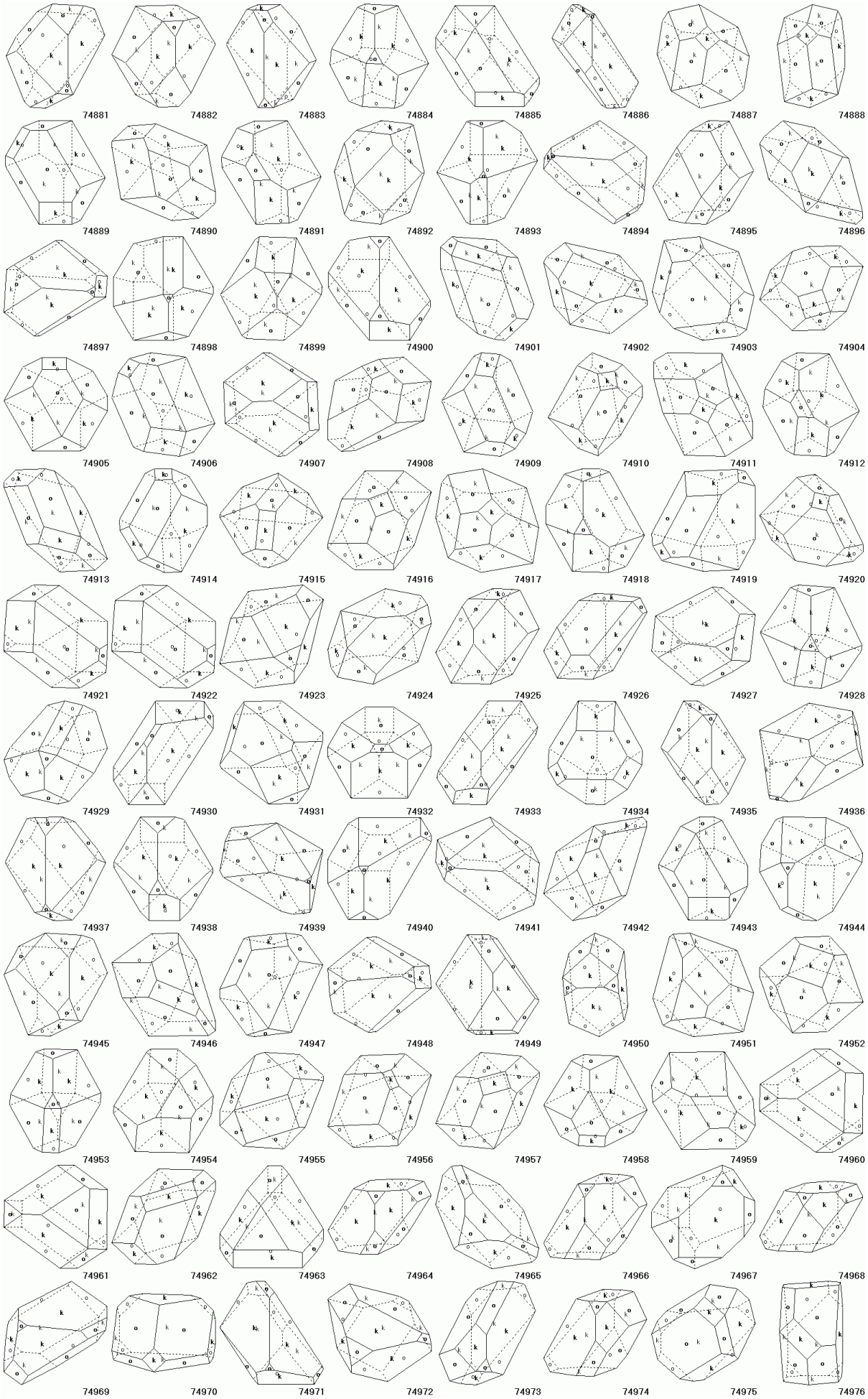
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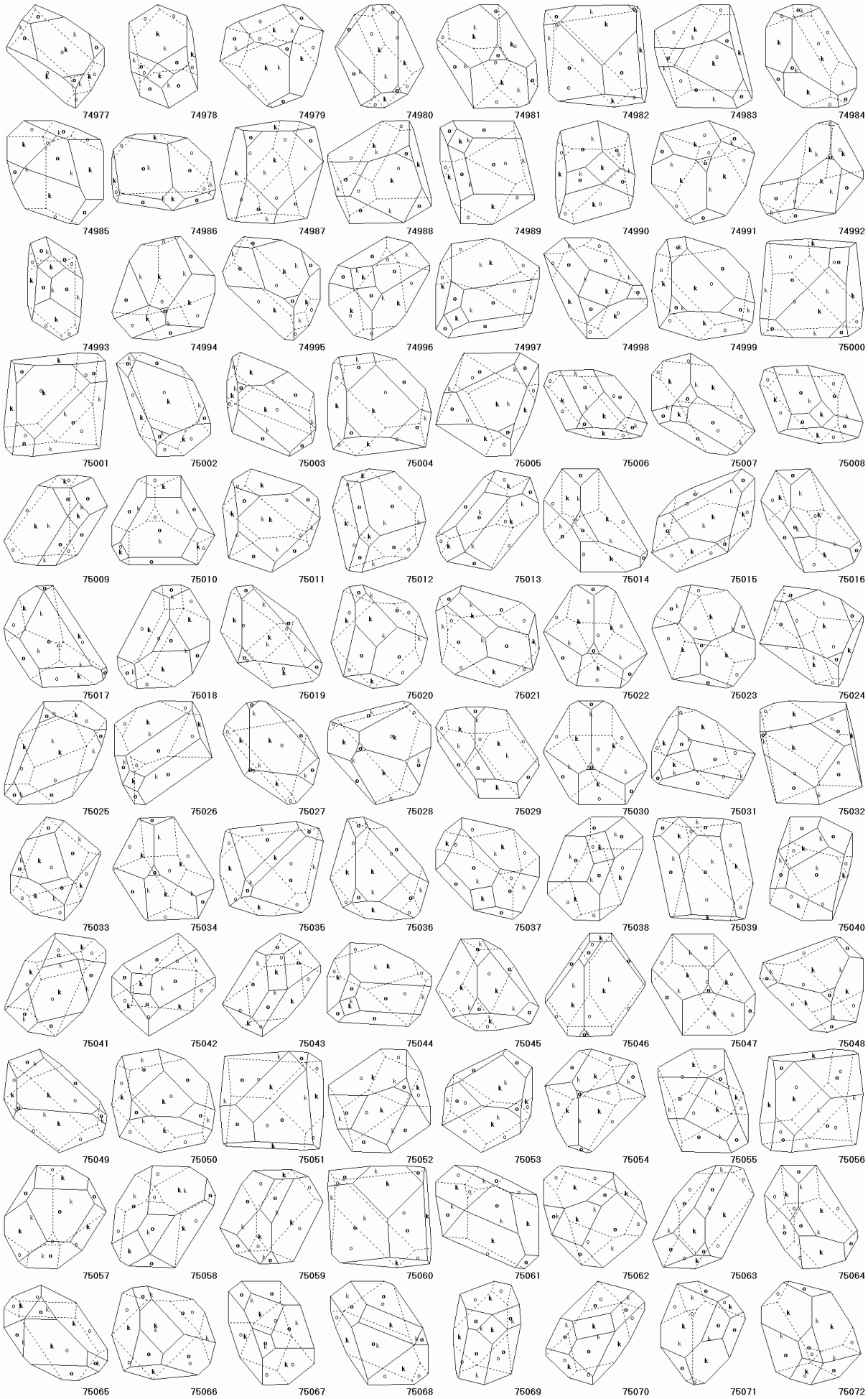
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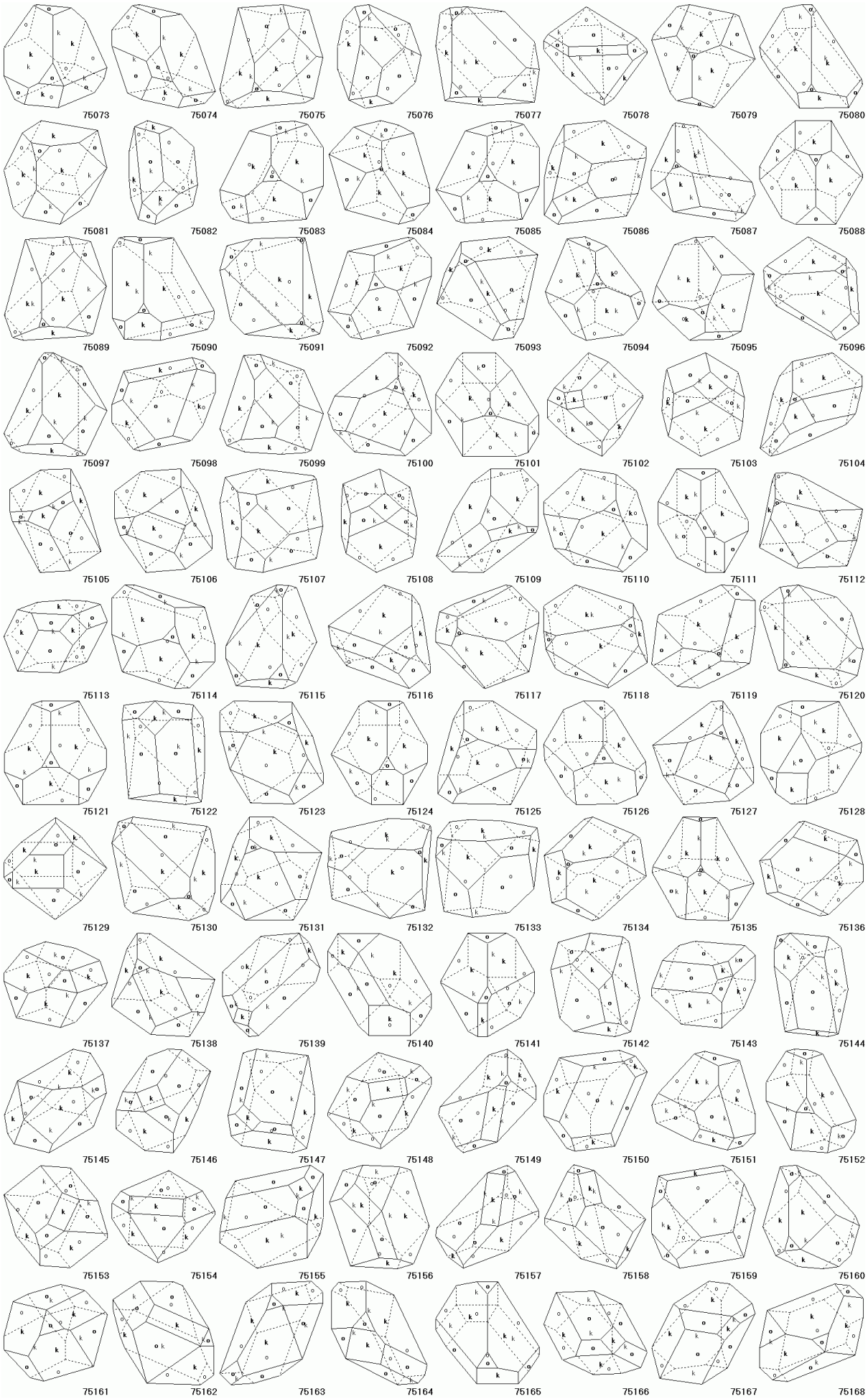
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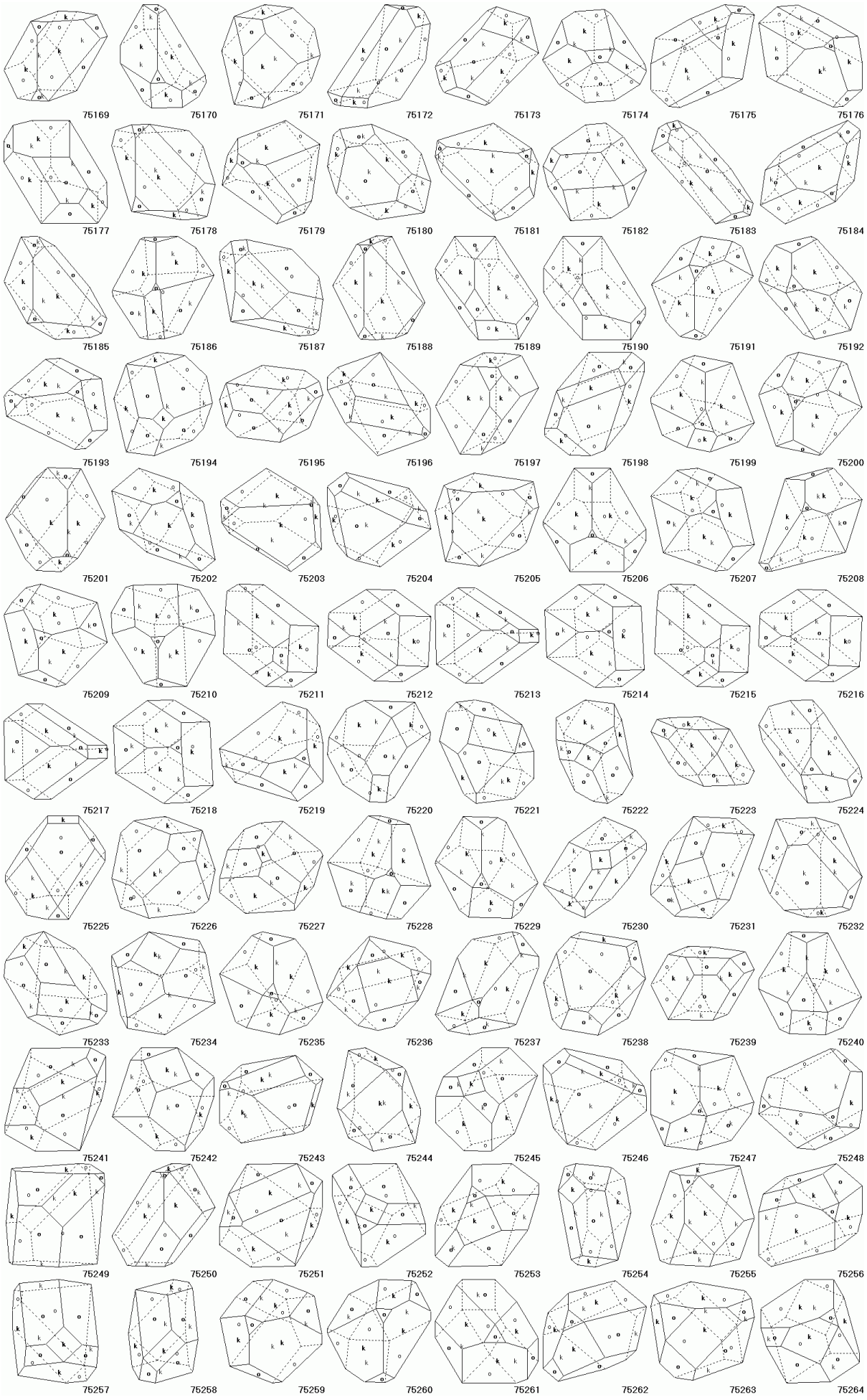
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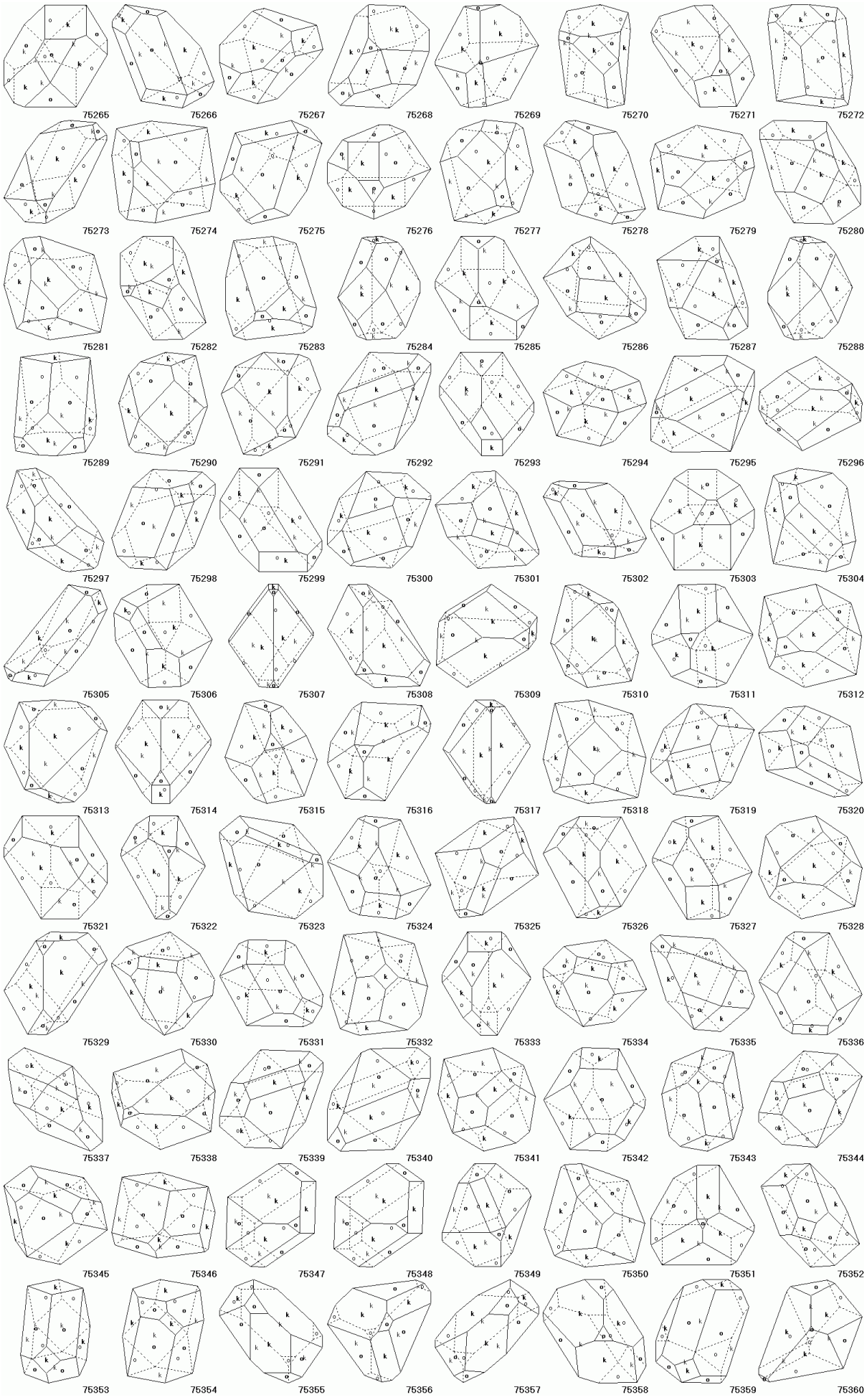
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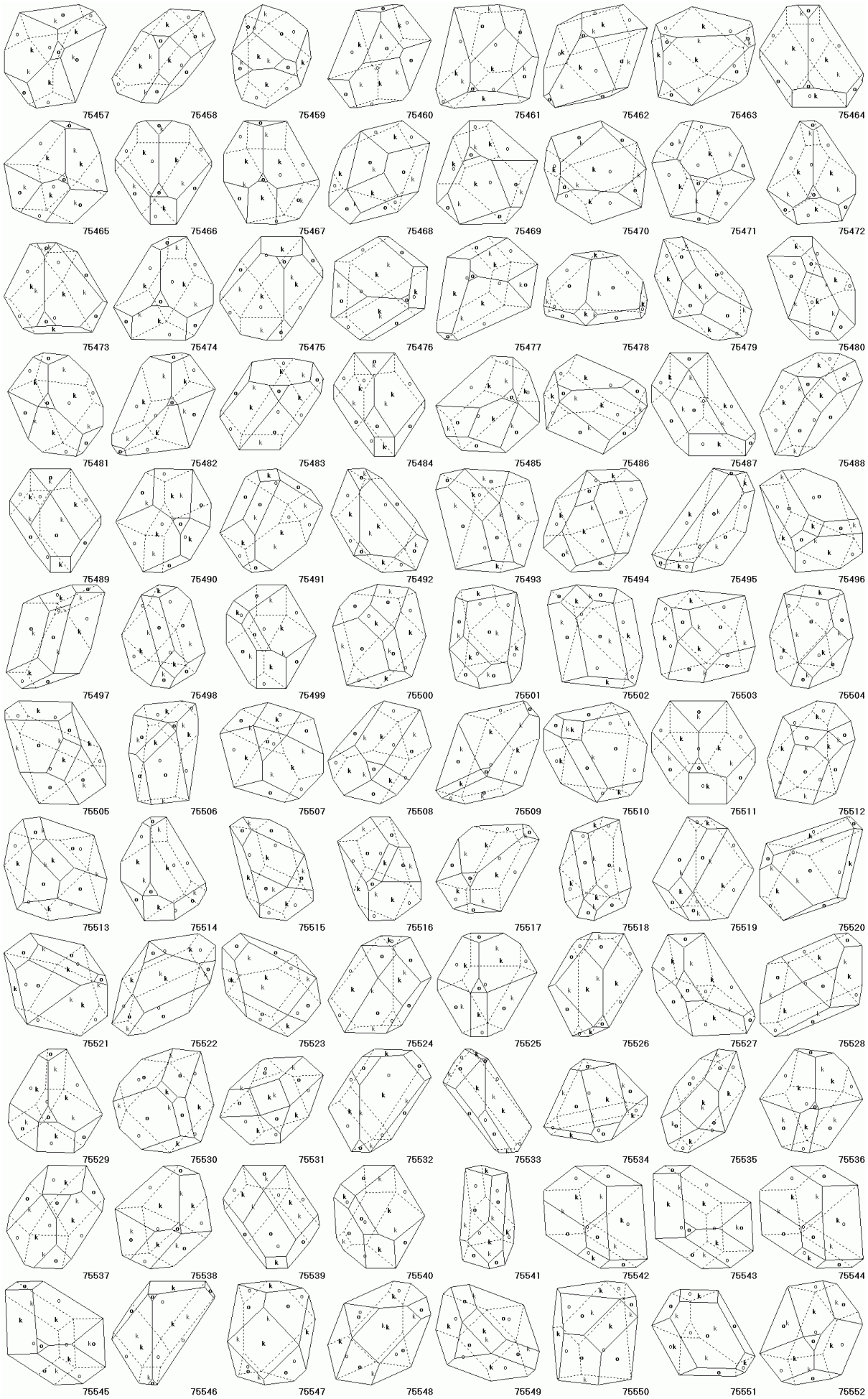
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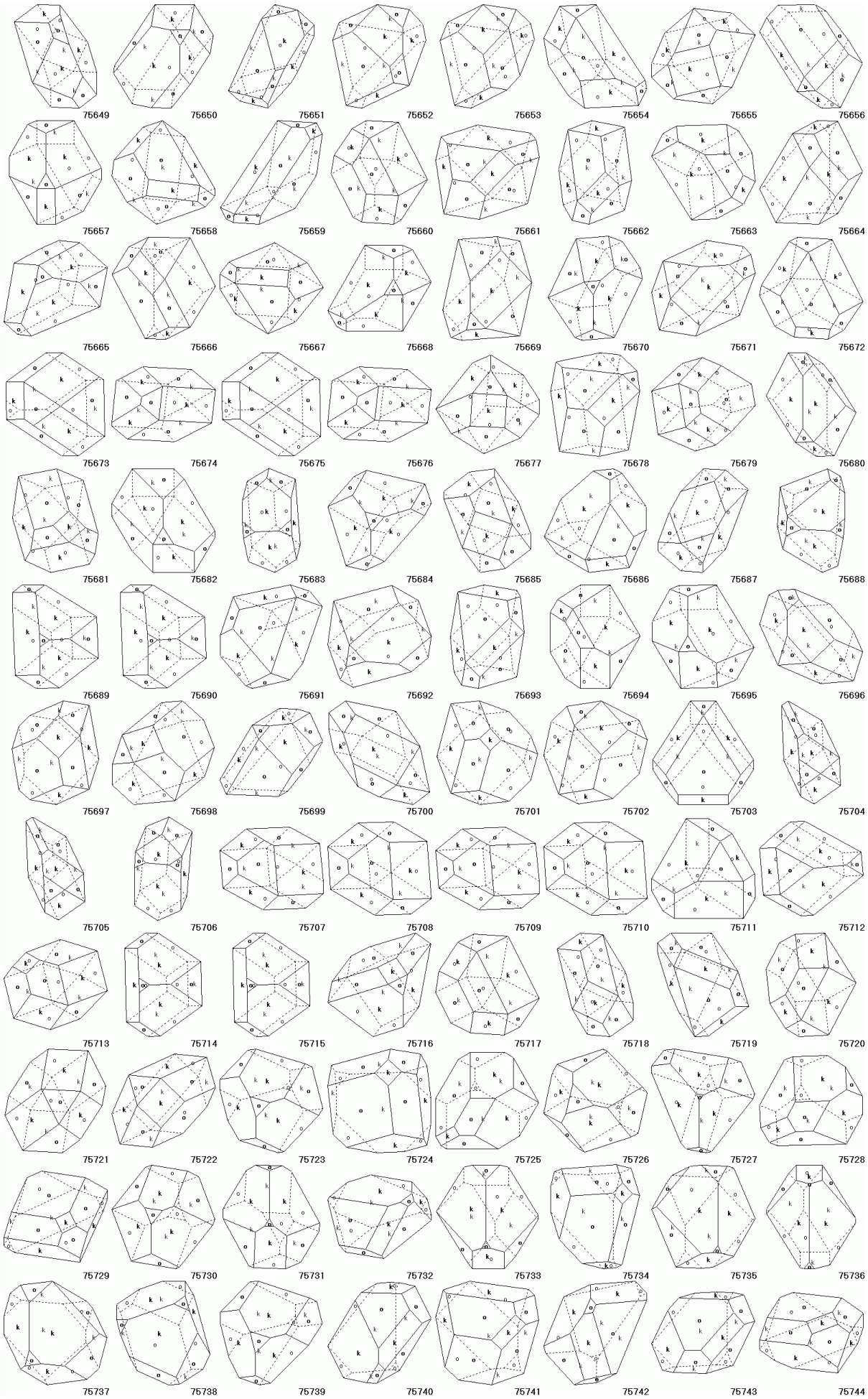
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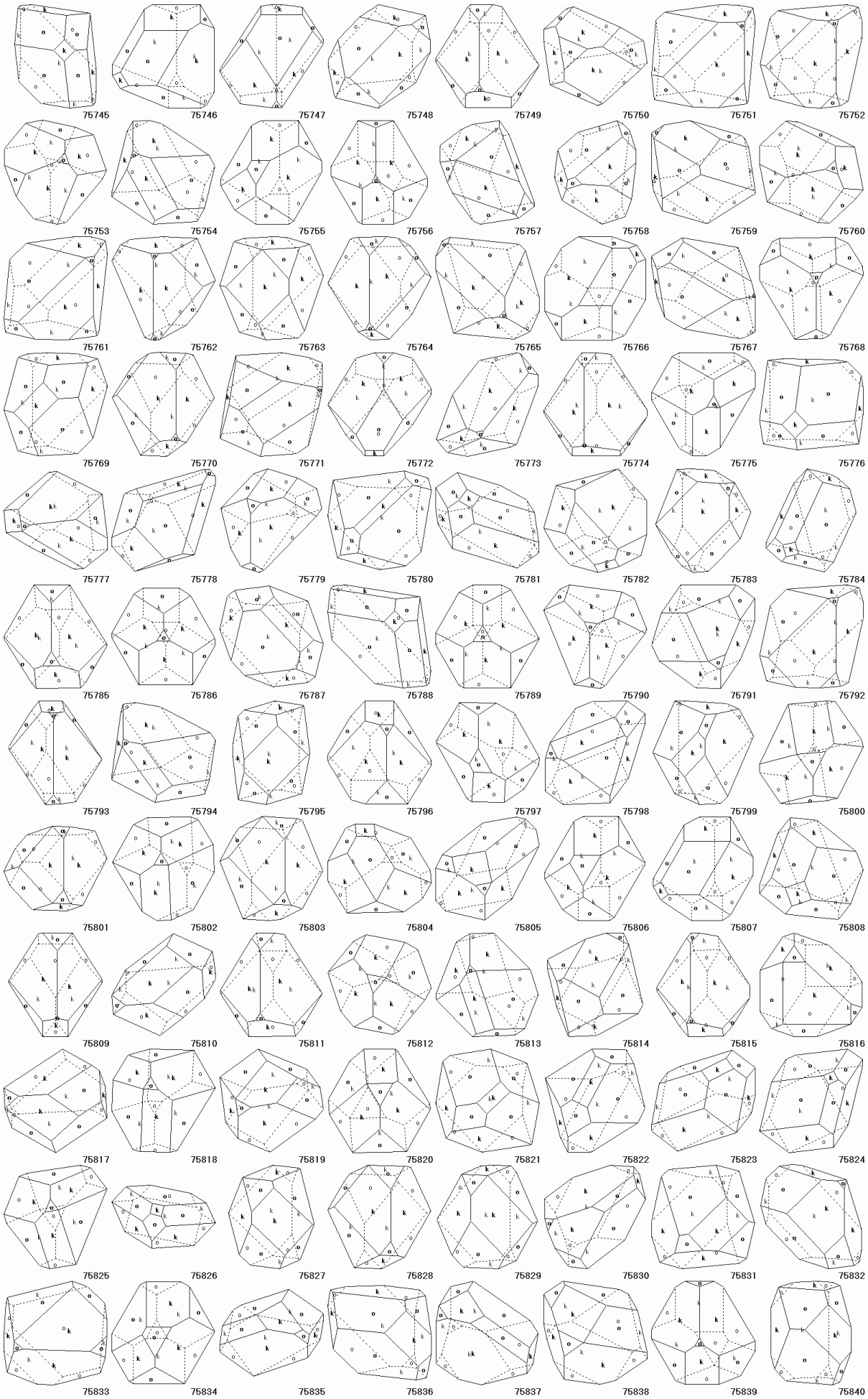
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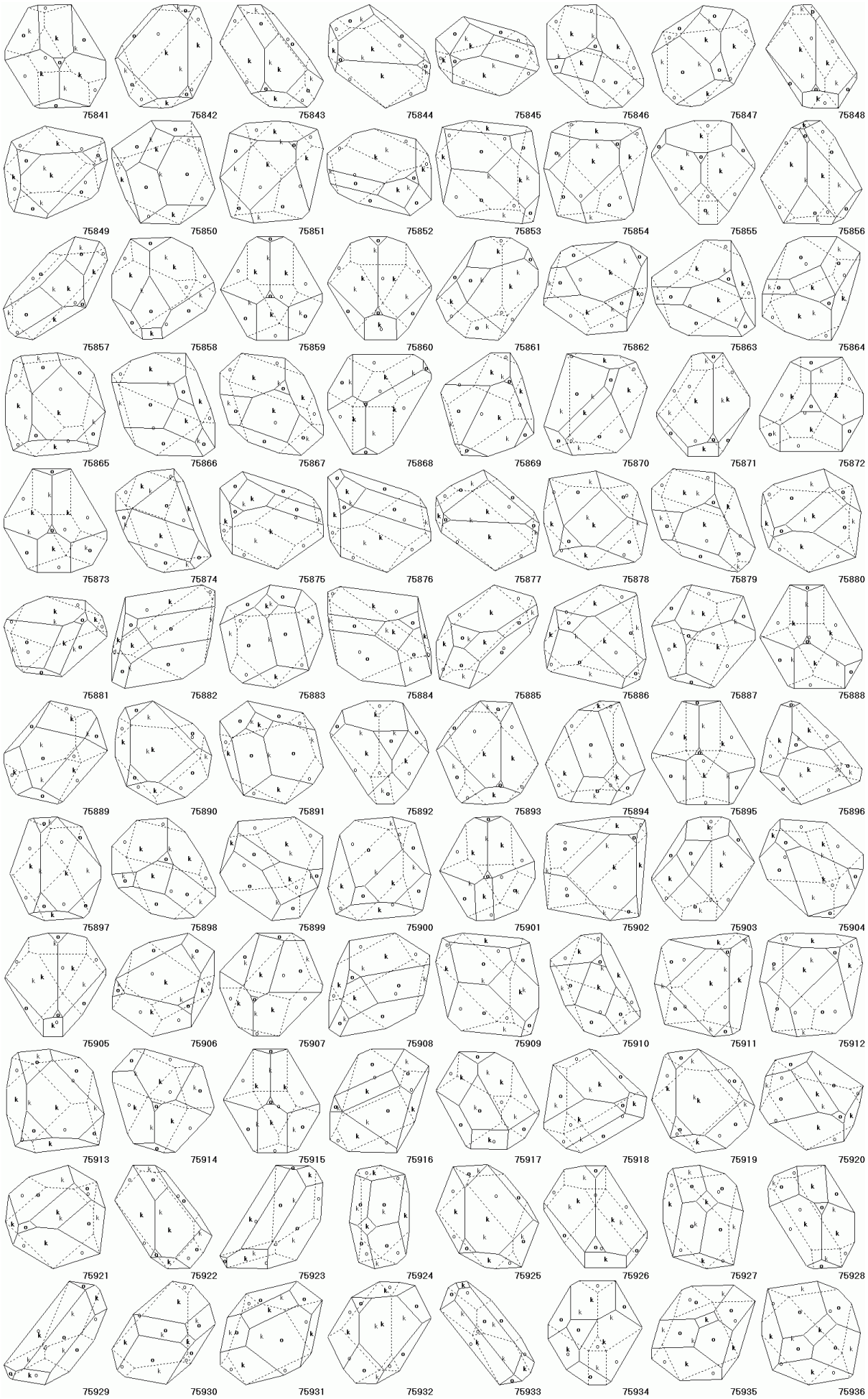
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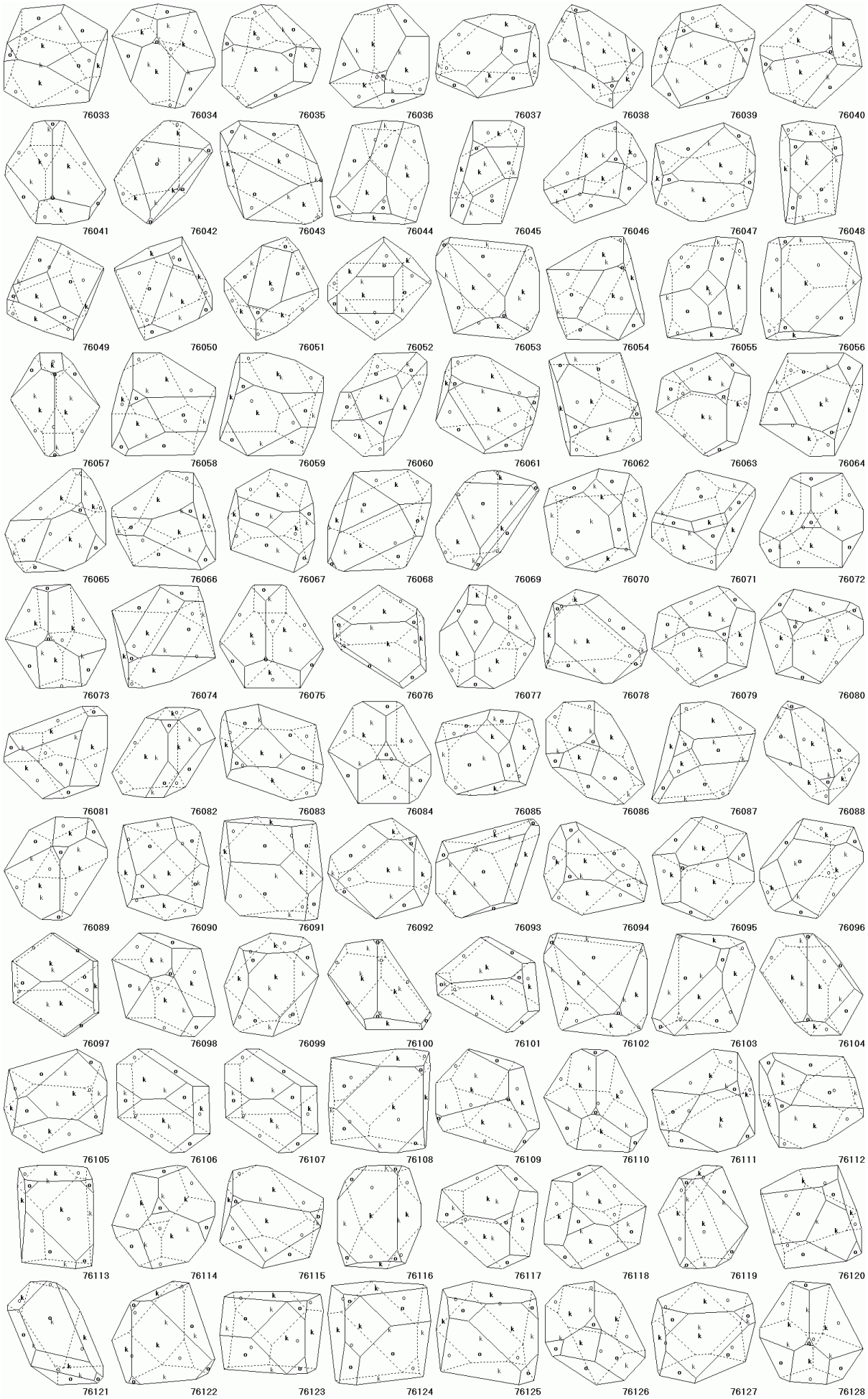
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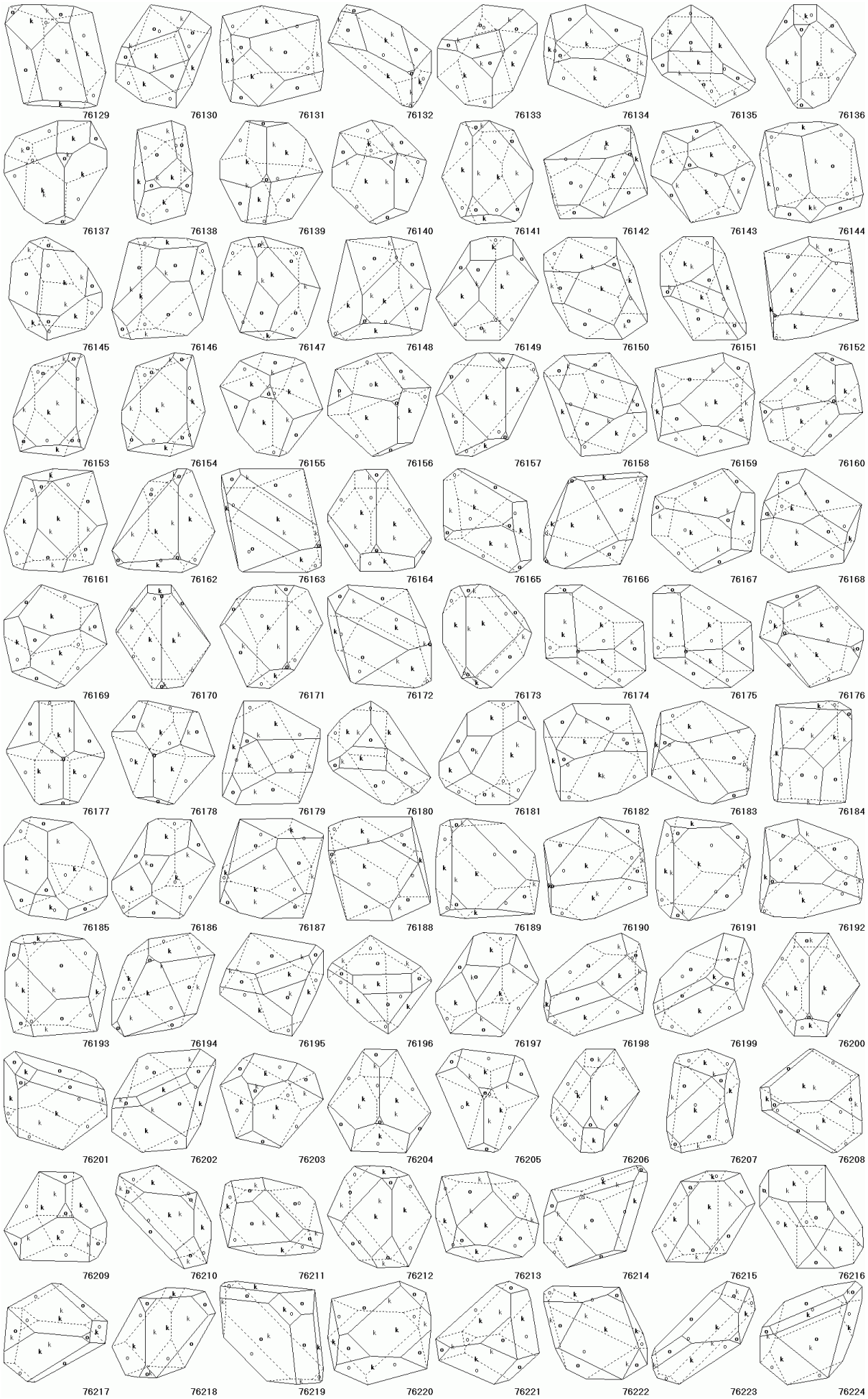
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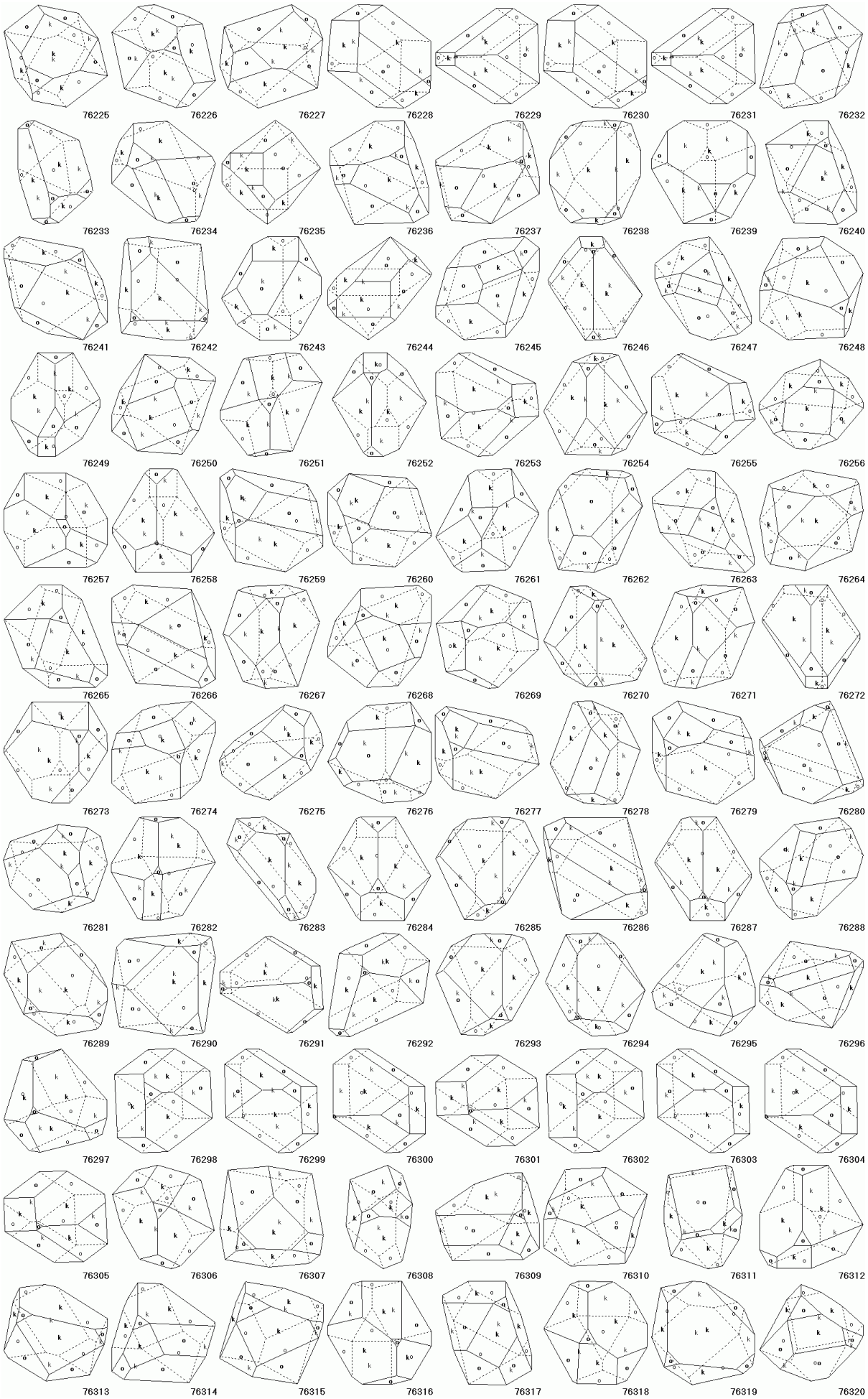
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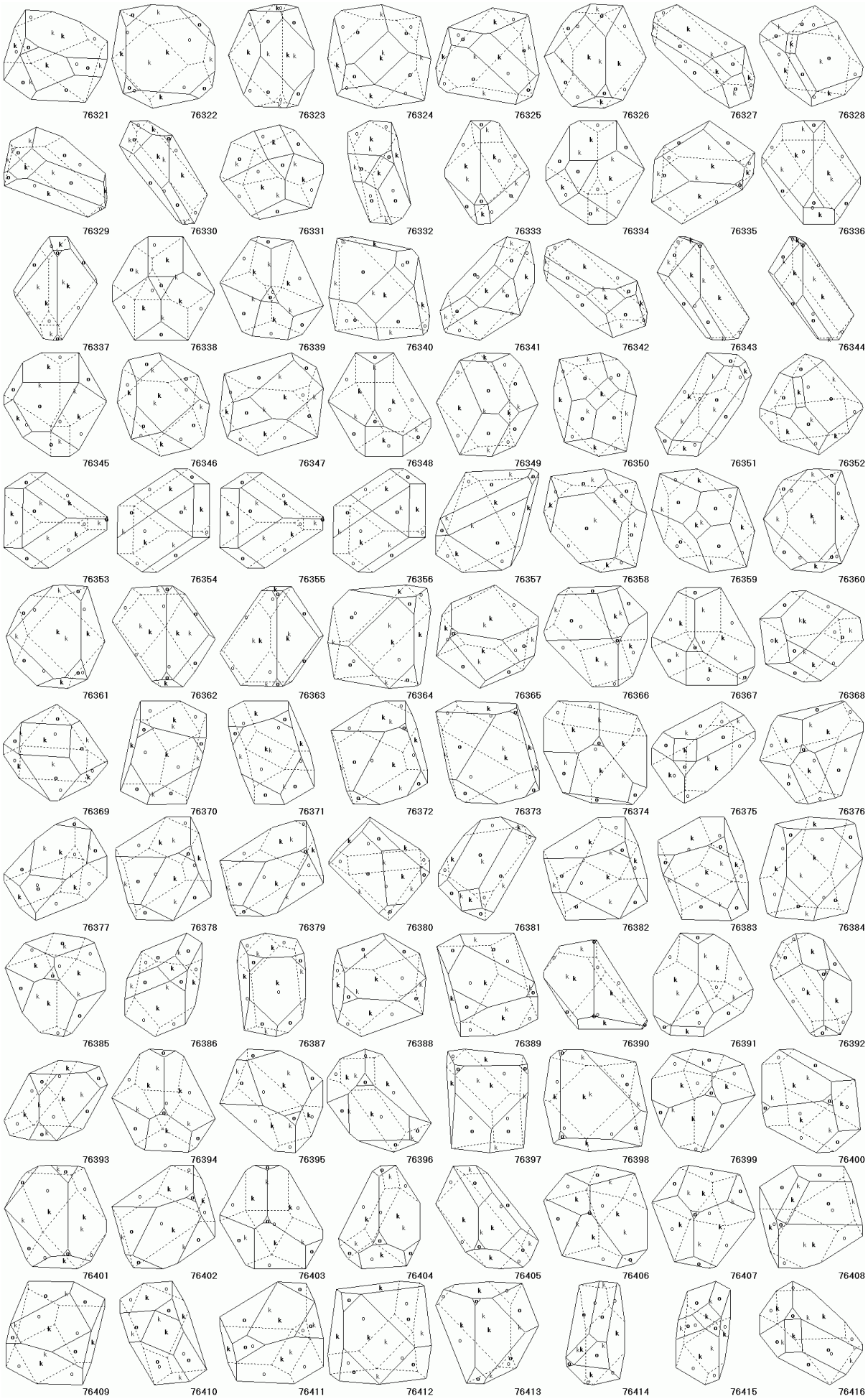
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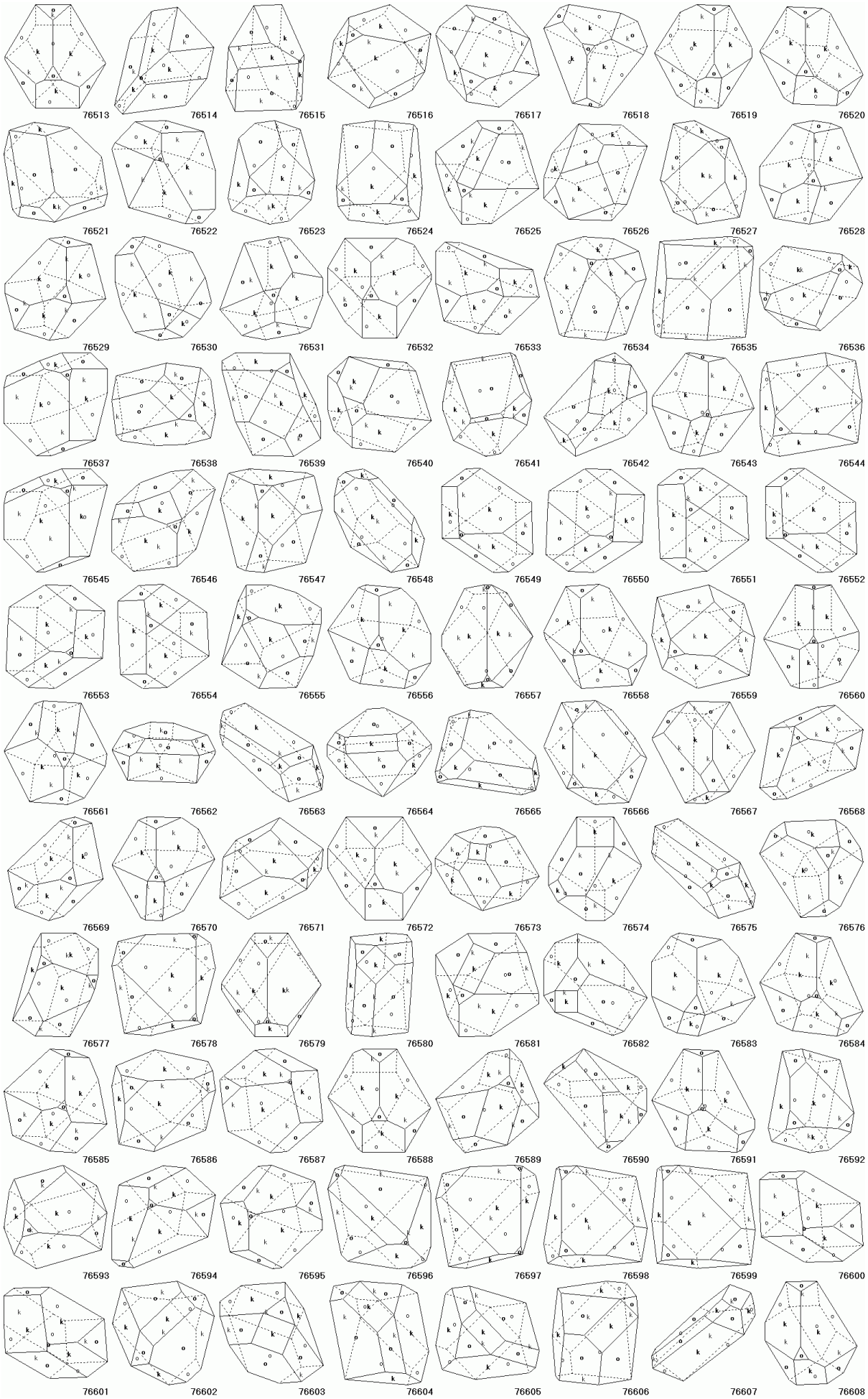
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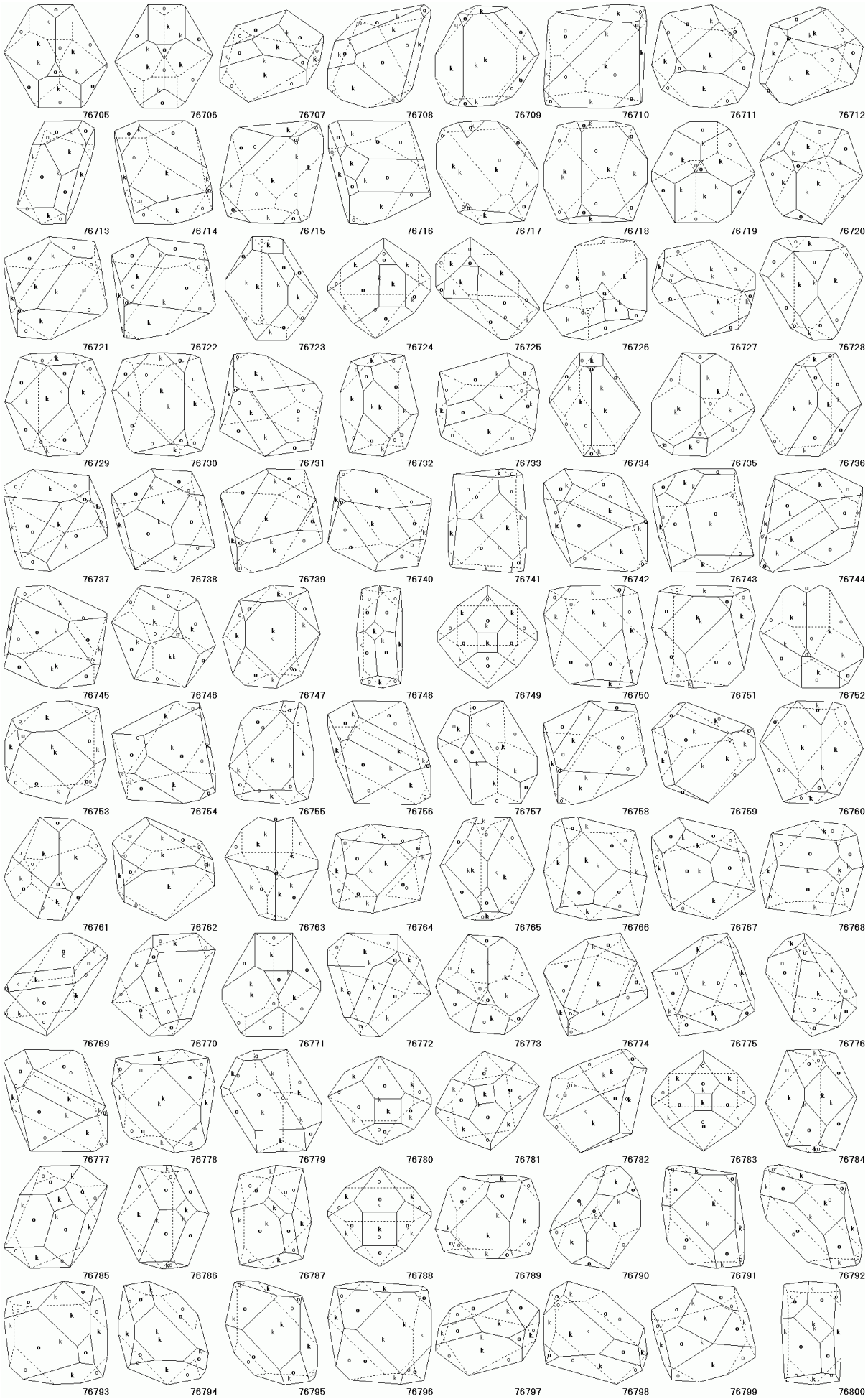
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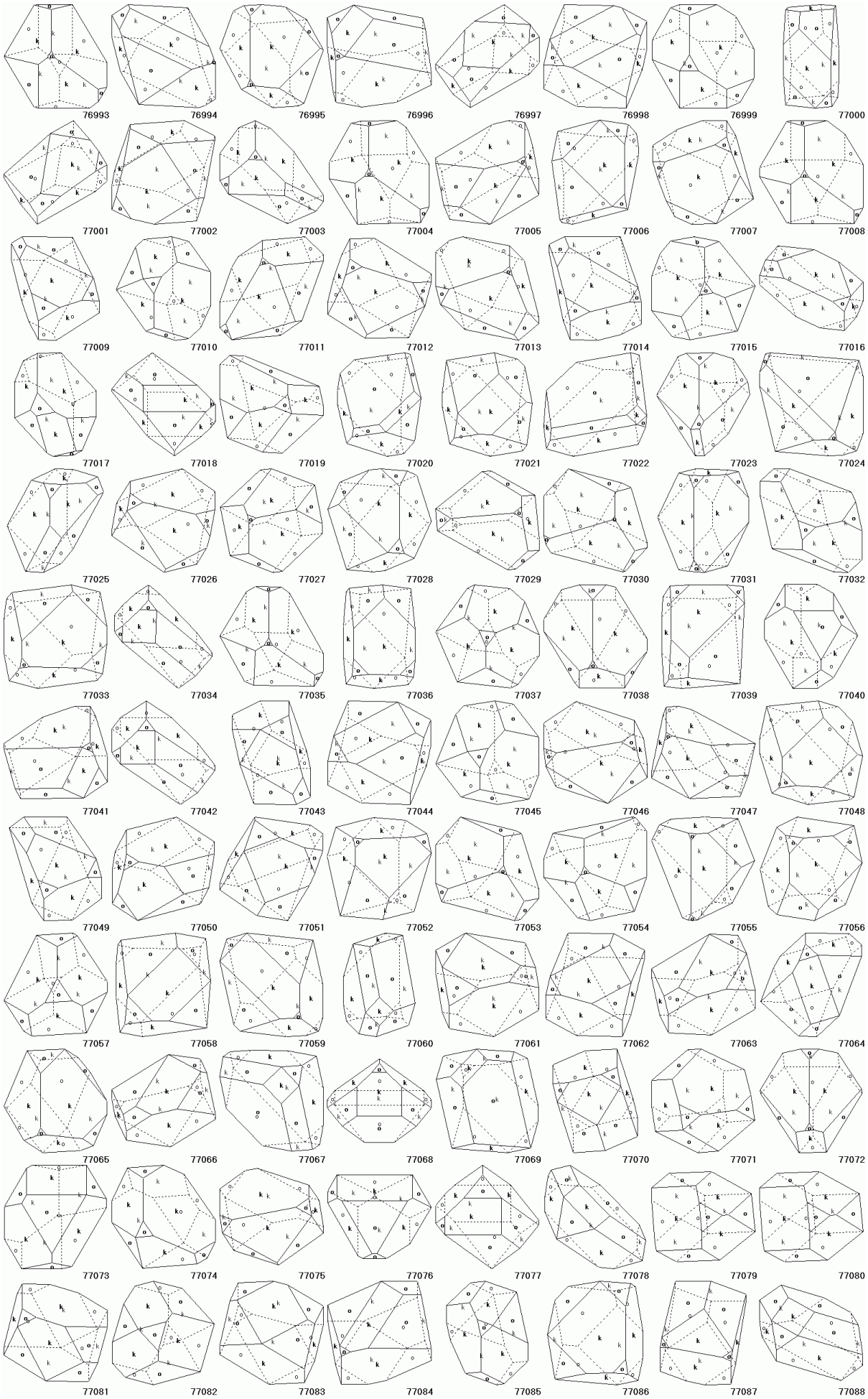
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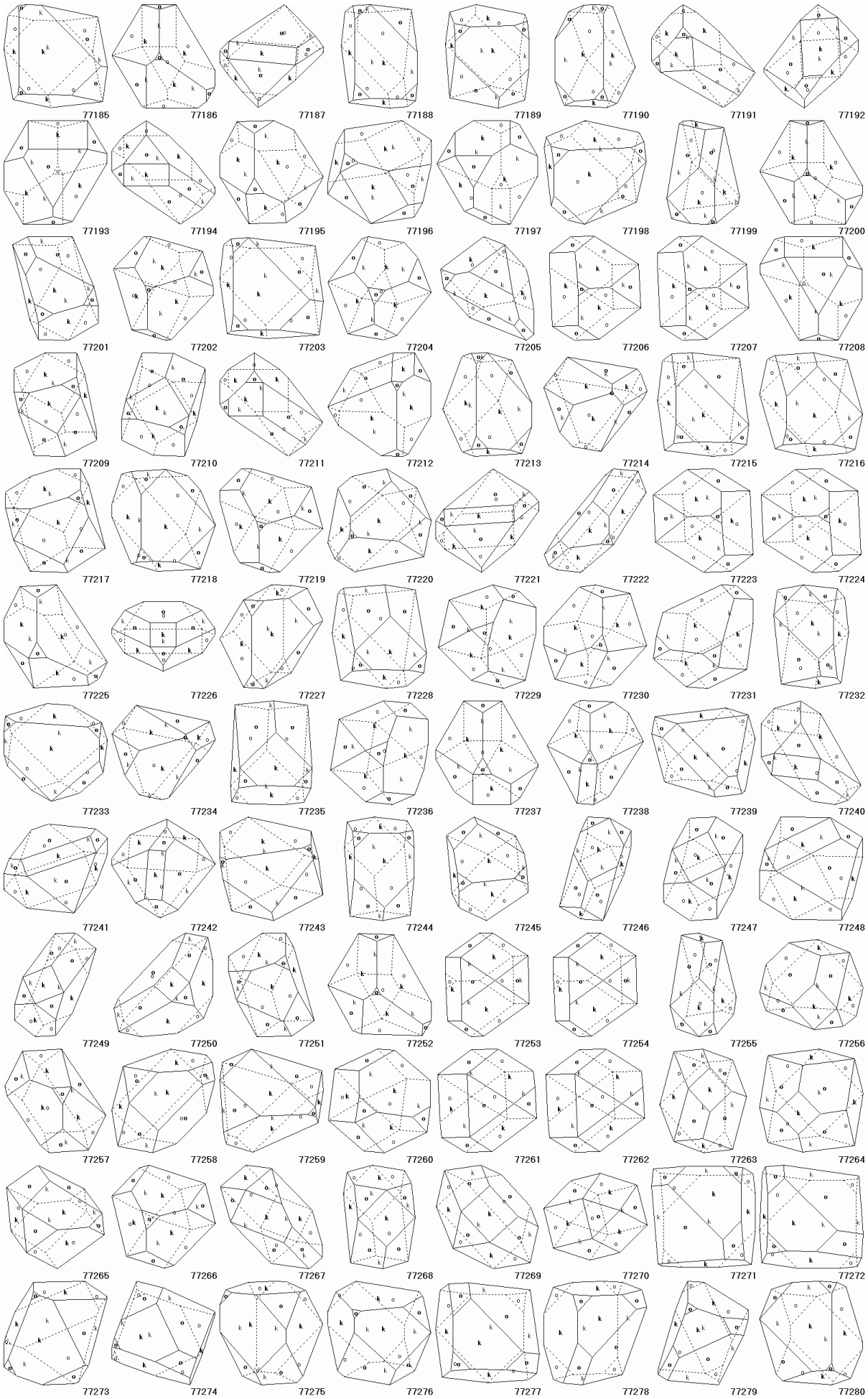
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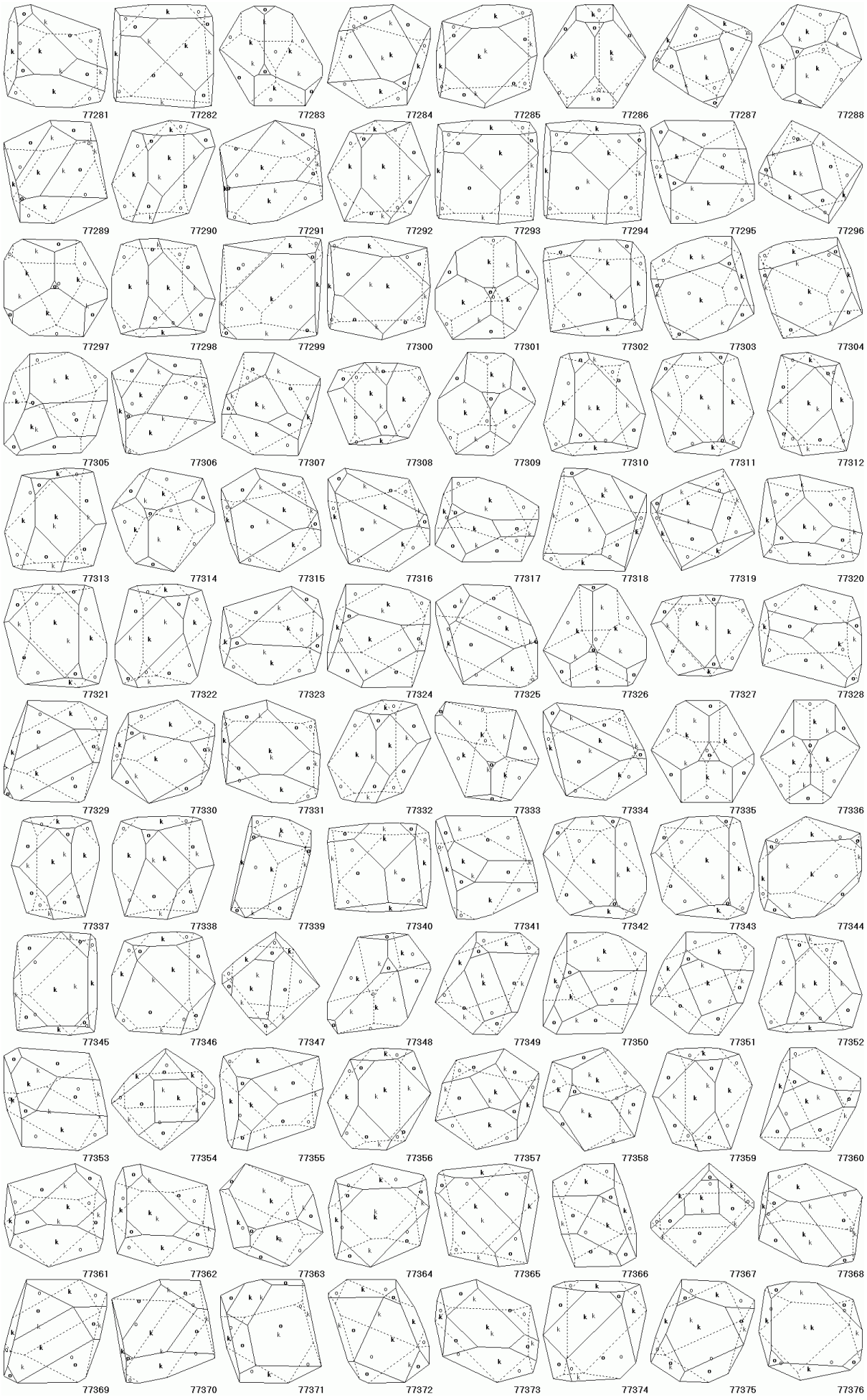
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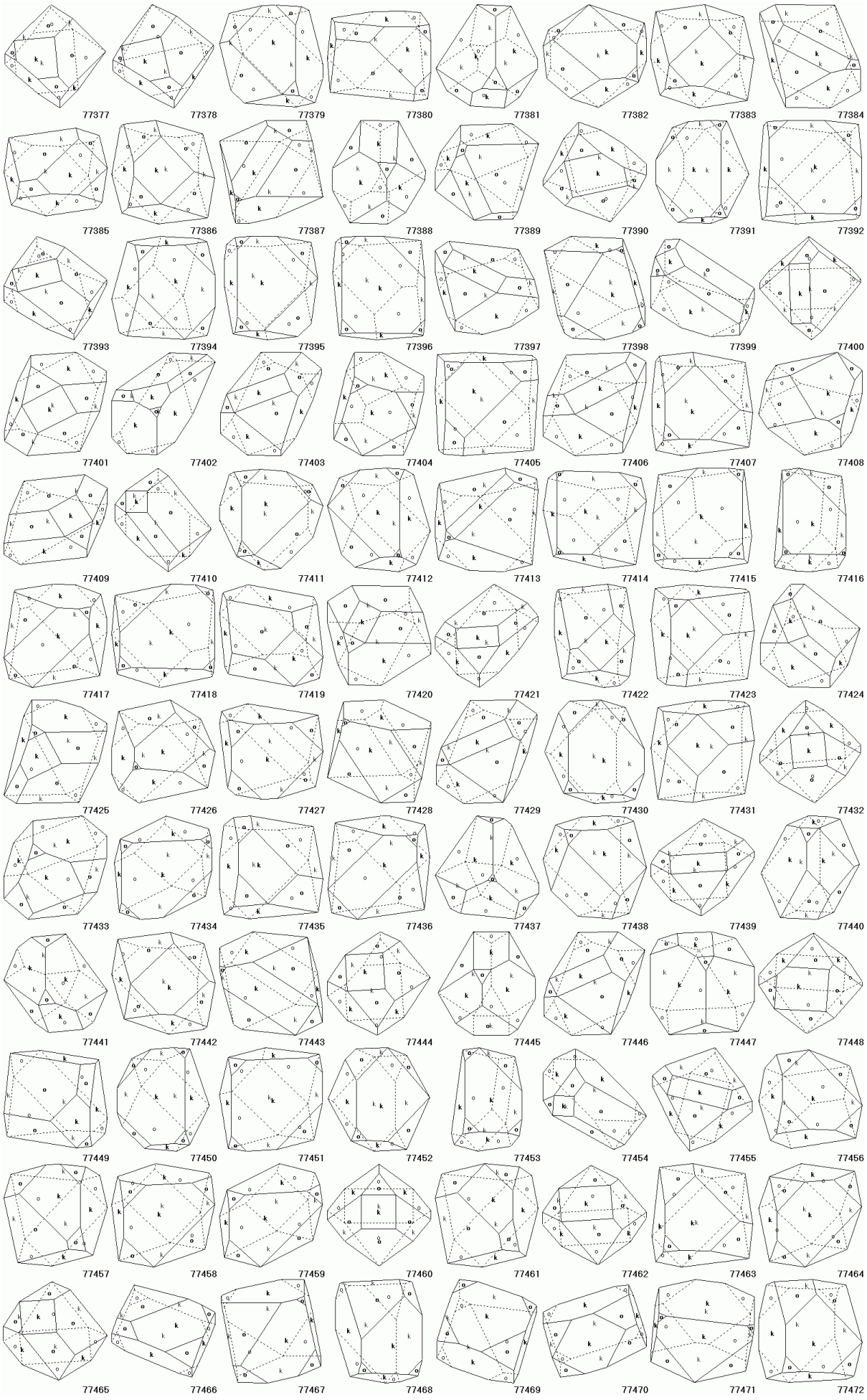
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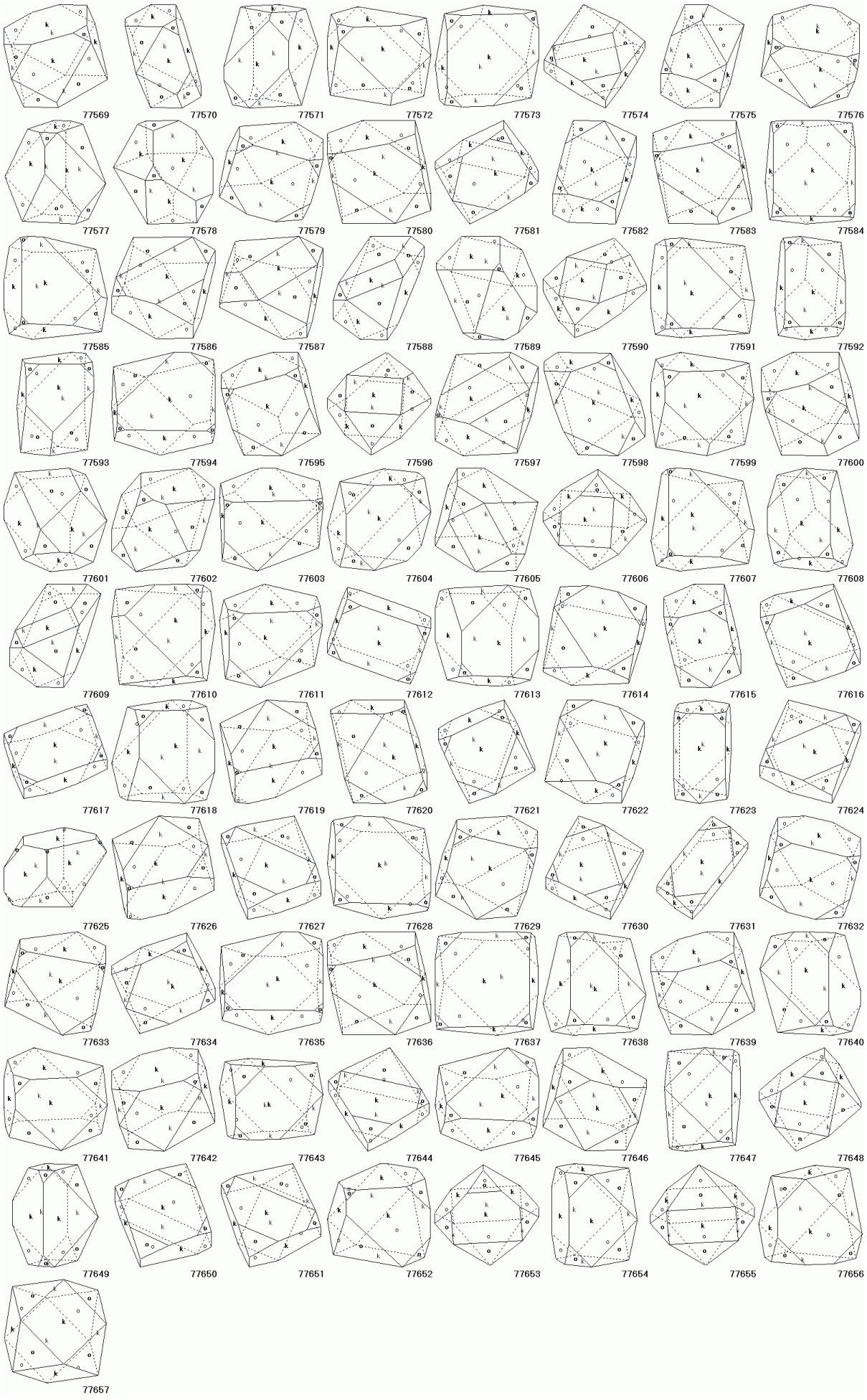
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КОМБИНАТОРНАЯ КРИСТАЛЛОМОРФОЛОГИЯ

III. Комбинации куба и октаэдра

Ю.Л. Войтеховский, Д.Г. Степенщиков

Научное некоммерческое издание

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Среди бесконечного количества природных кристаллов алмаз выделяется своими своеобразными загадочными свойствами. Обычно кристаллические многогранники ограничиваются ровными плоскостями и прямолинейными ребрами, так что прямолинейность этих элементов вошла настолько в научный обиход кристаллографа, что он смело переносит на кристаллы основные законы геометрических тел …

Ни один минеральный вид не дает кристаллографу такого огромного материала, как благородный минерал алмаз … Наиболее частой формой кристаллов является октаэдр … Сравнительно реже кристаллы этого минерала имеют форму кубов …

Надеемся, что данное исследование и приложенные к нему рисунки будут не только способствовать развитию наших собственных знаний и знаний наших коллег – минералогов, но что оно послужит на пользу и тем профессионалам, которые трудятся ежедневно над кристалликами алмазов. Надеемся также, что наш труд возбудит интерес в широких кругах к этим прекрасным и замечательным природным образованиям.

А.Е. Ферсман
Кристаллография алмаза