Rubik 7x7x7

a.k.a. V-Cube 7x7x7
(plastic, 3.1 inches; opposite black is yellow, opposite red is orange, opposite blue is green)

This cube has a slightly bulging shape. It is described in the same patent as the V-Cube 6x6x6 (the patent describes designs as large as 11x11x11), and like that cube, it uses slightly rectangular cubes on the edges and larger square cubes at the corners (the 7x7x7 has continuous action, whereas the 6x6x6 has click stop action).

The Wikipedia Page outlines a number of solution strategies. Jaap's Page presents a solution of four phases:

1. Solve the 5x5 areas of each center one at a time.
2. "Inner edge pieces" (ones directly adjacent to the center piece on an edge) are matched up to the center edge pieces to form solved triples on each edge.
3. "Outer edge pieces" (edge pieces that are one away from the center edge piece) are matched up to the solved edge triplets to form solved quintuplets.
4. Any method for solving Rubik's 3x3x3 cube can now be used to finish the solution (the solved 5x5 centers correspond to the Rubik 3x3x3 centers and the solved quintuplets correspond to the Rubik 3x3x3 edges).

Further reading:
Jaap's Page, from: http://www.jaapsch.net/puzzles/cube7.htm
Verdes Patent, from: www.uspto.gov - patent no. 7,600,756

Copyright J. A. Storer