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The Three-Dimensional Work: folding structure hexahedron 2

Michito Oda*

The Three-Dimensional Work, 'folding structure hexahedron 2' was on display at the 40th Annual Exhibition of the Modern Art Association in Tokyo in April 1990, where I was awarded the Prize in Design. This is the second work of polyhedral forms with 'folding structure', and consists of six facets of a right-angled isosceles triangle (Figure 2). 'folding structure hexahedron 2' has a supersonic sensor and a motor, and moves when someone approaches it (Figure 1).

The purpose of my 'folding structure' series is to find out the various possible forms under the condition of having 'folding structure'. 'folding structure tetrahedron' (1989) (Figure 3) is the first one of these polyhedral forms, and it has four facets of a regular triangle when unfolded. It also moves in the same way as 'folding structure hexahedron 2'. It was put on view at the Exhibition of My Own Works in Tokyo in February 1990 (Figure 4).

folding structure hexahedron 2
aluminum
1000 × 1000 × 250 (1177 × 873 × 832) mm (not including motor)
The 40th Annual Exhibition of the Modern Art Association, 1990
Tokyo Metropolitan Art Museum

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Figure 1 'folding structure hexahedron 2' in motion

Figure 2 The demetric paraline drawing of 'folding structure hexahedron 2'

Figure 3 The demetric paraline drawing of 'folding structure tetrahedron'

Figure 4 The Exhibition of My Own 3-Dimensional Works
Nisshin Gallery at Ginza, Tokyo
February 5-17, 1990

left (in the center): the folded state of 'folding structure tetrahedron'
right (in the center): the unfolded state of 'folding structure tetrahedron'

Photo: S. Saito