The Three-Dimensional Works: folding structure octahedron and decahedron

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The Three-Dimensional Works, ‘folding structure octahedron’ (Fig. 1 to 3) was displayed at the 91’s Exhibition of Selected Works by the Modern Art Association in Yokohama in September 1991. The ‘folding structure decahedron’ (Fig. 4 to 6) and ‘folding structure octahedron’ were on view at the Exhibition of My Own Works in Tokyo in Autumn 1991 (Fig. 7). Each of them has a supersonic sensor and a motor, and moves when someone approaches it. Since they are controlled with their own programmed controllers, they start from the folded state and stop halfway in some seconds and go to the unfolded end, but do not stop on the way back.

The ‘folding structure octahedron’ consists of eight facets of a regular triangle (Fig. 2), and the ‘folding structure decahedron’ consists of ten facets (Fig. 5). The previous work, ‘folding structure hexahedron 1’ consisted of six facets. It was also displayed at the Exhibition of My Own Works in Tokyo in Autumn 1991. These three works are included in a group of polyhedra with plural facets of a regular triangle.

(All photographs in this article were taken by Sadamu Saito.)

Fig. 1 folding structure octahedron (1991) aluminum 1039 × 900 × 250 (744 × 744 × 1053) mm (not including motor)

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Fig. 3 'folding structure octahedron' in motion

Fig. 4 folding structure decahedron (1991)
aluminum
$1200 \times 1039 \times 250$ ($1115 \times 963 \times 802$) mm
(not including motor)

Fig. 5 The outline of 'folding structure decahedron'

Fig. 6 'folding structure decahedron' in motion
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Fig. 7 The Exhibition of My Own Three-Dimensional Works
Nisshin Gallery at Ginza, Tokyo
28 October-9 November, 1991
left : The Wall Work 'folding structure v20'
center : folding structure hexahedron 1
right : folding structure octahedron
far right : folding structure decahedron