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# JAPAN BRIDGE & STRUCTURE INSTITUTE, INC.

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Establishment: July 10, 1962

Capital: ¥ 40,000,000 (paid up)

## Key Personnels

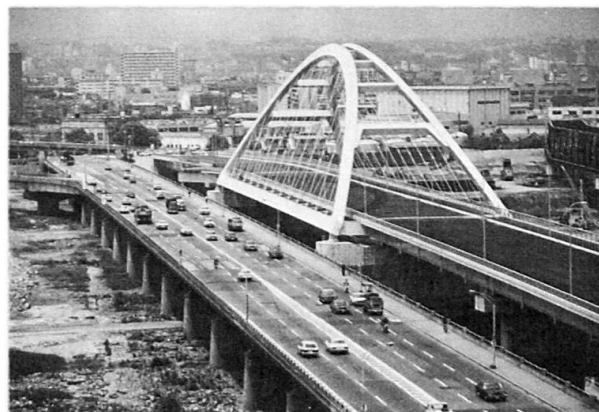
President: Yasuji TAHARA, Dr. Eng.  
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Vice-President: Shunji INOMATA, Dr. Eng.  
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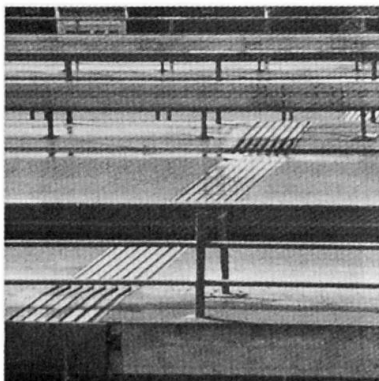
Executive Director: Ken-ichi OTOFUJI, Dr. Eng.  
Member of IABSE  
and The Japan Society of Civil  
Engineers

## Services

1. Consulting services for civil engineering and architecture in the general industrial fields, and their research and testing works.
2. General layout and design for bridges, and structures of metal, reinforced concrete, prestressed concrete and their incidental testing research work.
3. Research, testing and experimental study for the development of concrete structures by applying new methods of prestressing to various fields of infrastructures and industries.
4. Research and analysis on the problem of aesthetic or environment for bridge and structures.



*Nagara Bridge, Osaka, Japan*

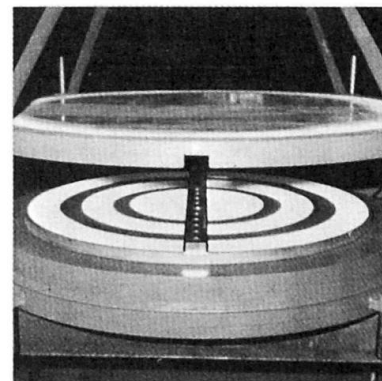


## MAGEBA bearings and expansion joints

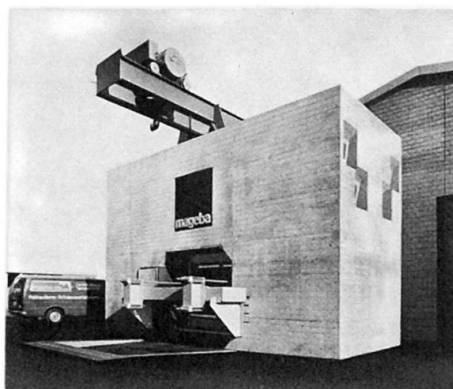
Our products are technically first-class, highly reliable and maintenance-free. MAGEBA bearings are very compact and are free to move unhindered. MAGEBA expansion joints are watertight and have a low noise level.

### Our know-how

Work on many large-scale projects has given us exceptionally broad experience in the design of bearings and expansion joints. Our engineers are kept on top of new developments as a result of our own research and worldwide interchange of information. Just ask us. We will be happy to advise you.



The Mageba prestressed concrete frame has been designed for testing vertical loads up to 100,000 KN. Three separate hydraulic circuits are used to control the application of loads and movements.



- Main circuit for vertical loads  
piston diameter 2040 mm  
max. load 100,000 KN.
- Circuit for horizontal loads:  
3 jacks each with 3500 KN  
permissible load.
- Circuit for horizontal movements:  
3 jacks each with 1500 KN  
permissible load  
possible horizontal displacement  $\pm 250$  mm.

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