



DAMPERS FOR EARTHQUAKE PROTECTION AND VIBRATION CONTROL

- Buildings; Structures; Bridges;

- Equipment.

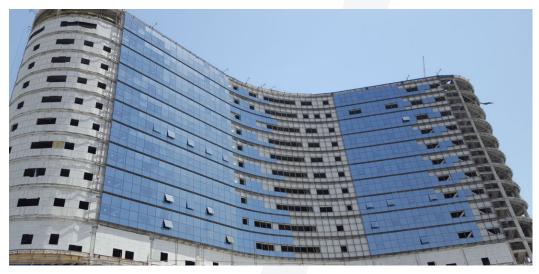
Japan eg. Japan's Highest Skyscrap

REFERENCES

EXPERIENCE

BRACING SUPERSTRUCTURE





HOSPITAL WITH 800 BEDS

- 17 floors;
- Damper capacity: 300 500 kN;
- Total number: 348 dampers.



RETROFITTING OF BANK AND OFFICE BUILDING

- 20 floors;
- Damper capacity: 160 400 kN;
- Total number: 180 dampers.



TORRE CAPITAL BUILDING

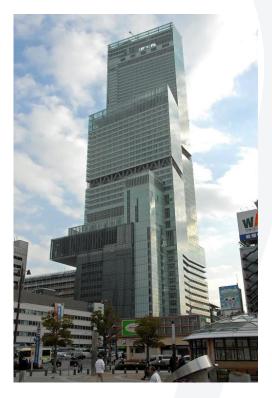
- 24 floors;
- Damper capacity: 800 1100 kN;
- Total number: 20 double story braces.







BRACING SUPERSTRUCTURE





JAPAN - ABENO HARUKAS - TALLEST BUILDING IN JAPAN

- 62 floors, 300 meters tall;
- Damper capacity: 1500 5000 kN;
 Total number: 108 dampers.

OFFICE BUILDING

- 33 floors;
- Damper capacity: 400 800 kN;
- Total number: 170 dampers.



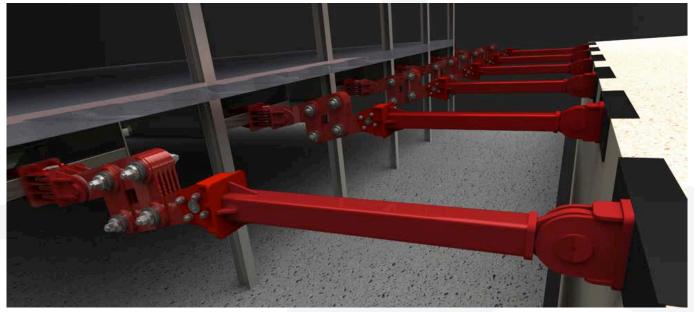




FRICTION BASED STRUT









CALIFORNIA BANK

- 22 floors, 95 meters tall;
- Damper capacity: 1500 kN;
 Displacement: +/- 245 mm;
 Total number: 8 large dampers with struts.

TOGGLE BRACING, CONCRETE SHEAR WALL RETROFIT







SCHOOL BUILDING RETROFIT

(LOW-RISE CONCRETE SHEAR-WALL)

- First and second project in a program to retrofit schools and offices in South Korea;
- 4 floors;
- Damper capacity: 300 kN;
- Total number: 20 dampers.

INDUSTRIAL APPLICATIONS





CEMENT PLANT IN GREECE

- Heavy duty dampers;
- Robust performance in corrosive environment;
- Damper capacity: 250 kN, +/- 400 mm.

BASE ISOLATED BUILDINGS













SUPPLEMENTARY DAMPING FOR RUBBER BEARING BASE ISOLATION

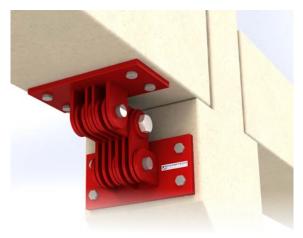
- 7 projects were done in Japan;
- Dampers were installed to protect high-rise buildings as well as laboratories and their equipment;
- Displacement: +/- 600 mm;Capacity: 150 kN.

MOMENT FRAME STRENGTHENING





- Damper capacity: 70 kN (up to 500 kN feasible);
- Total number Units: 24.





RETROFITTED PRECAST STRUCTURES IN TURKEY

QUALITY CONTROL AND PRODUCTION MA-

• Automated assembly and testing machine is used to assure the quality and capacity of each damper.





ADVANTAGES OF DAMPTECH DAMPERS:

- Reliable performance over lifetime of structure;
- Effective damping of up to 50%;
- Standard capacities vary from 200 to 2000 kN;
- Large capacity is up to 10 MN;
- High flexibility on stroke;
 Large displacements of +/-1500 mm are available for base isolation;
- Ideal for retrofitting;
- Lower strength requirements;
- Easy installation;
- Worldwide patents and 20 years of experience







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