

# **Product Overview**

## **Application** Areas

- All types of buildings (RC, Steel,
- Composite) Stadiums, arenas &
- gymnasiums
- Pressure vessels & machine structures

# **Advanced** Technology

## **Design Codes**

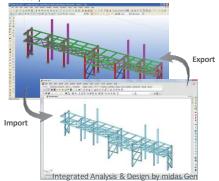
RC Design	Steel Design	SRC Design
Eurocode 2 & 8	Eurocode 3	SSRC
ACI318	AISC-LRFD	JGJ138
NTC2008	AISC-ASD	CECS28
BS8110	AISI-CFSD	AIJ-SRC
IS:456 & IS:13920	BS5950	T W N - S R C
CSA-A23.3	IS:800	AIK-SRC2K
GB50010	CSA-S16	AIK-SRC
AIJ-WSD	GBJ17, GB50017	KSSC-CFT
T W N - U S D	AIJ-ASD	Footing Design
AIK-USD, WSD	TWN-ASD, TWN-LSD	ACI318
KSCE-USD	AIK-ASD, LSD, CFSD	BS8110
KCI-USD	KSCE-ASD	Slab & Wall Design
	KSSC-ASD	Eurocode 2

## Highrise Specific Functionality

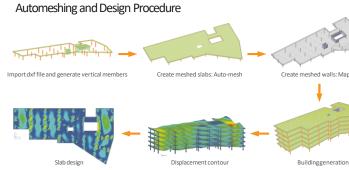
- Construction Stage Analysis accounting for change in geometry, supports and loadings - 3D Column Shortening Analysis reflecting change in modulus, creep and shrinkage

### File Manipulation

- Direct Data Transfer with Tekla Structures, Revit Structure & STAAD
- Import/Export (AutoCAD DXF, MSC.Nastran, MGT, etc.)
- Merge Data Files
- Unlimited Undo/Redo & Step Return using History



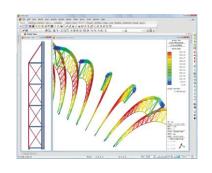
- Plant structures (power plant, steel plant,
- etc) Airports & hangars
- Underground structures

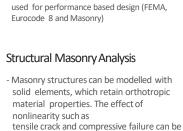


### Dynamic Report Generation

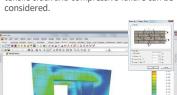


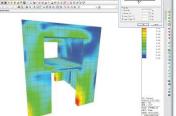
- Automatic re-generation of the report





- Pushover Analysis of a 3D frame structure



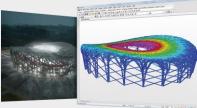


### Stress Contour of Masonry Structure

# **BuildingStructures**



Moscow City Palace Tower (Russia) Twisting 46-story Building with Composite Columns



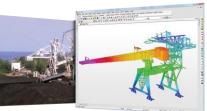


Beijing National Stadium (China) Beijing Olympic Main Stadium

Structural Evaluation of Vulnerable Historic Building (Built 1580)

# **PlantStructures**





Coal Mining Plant (32,000,000Ton/Yr.)



Create meshed walls: Map-mes

Pushover Analysis

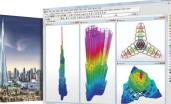


with updated analysis & design results

# Geometric Nonlinear Analysis

- Large displacement analysis encountered in cable supported structures, cable net structures, long span structures, etc. can be performed reflecting the change in geometrical deformations

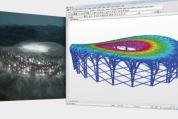


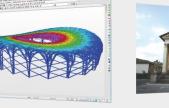




Burj Khalifa (UAE) The World's Tallest Building









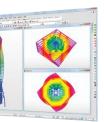
Tavazon Steel Plant (Iran)

Steel Manufacturing Plant

(1,400,000Ton/Yr.)

https://www.midasoft.com/bridge/civil/products/midasngen For more than last two decades, MIDAS Engineering Solutions have been used in designing prominent landmark structures around the world

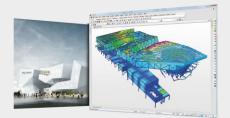
# Structural Engineering Field





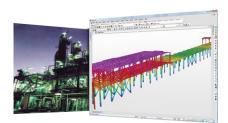
Guangzhou Twin Tower (China) 103-story Multi-use Building

Temietto di Villa Barbaro (Italy)



German Pavilion (China) Shanghai EXPO

Kideco (Indonesia)



Hadded CCL (Saudi Arabia) Color Coating Plant including RCL, CPL & Utility (120,000 Ton/Yr.)