

THIRD AVENUE BRIDGE

Bronx, New York

Description: Atlantic Industrial Technologies designed, manufactured and installed the full hydraulic control system for the Third Avenue Bridge in the Bronx, New York. It features a 300-foot-long draw span that swings perpendicular to the approach roadways. When opened, vessels in the Harlem River are permitted to travel through two 102-foot-wide channels. When closed, the bridge permits 25 feet of vertical clearance.



The swing span is comprised of continuous trusses supported by a drum girder at the center pivot pier, and toggle end lifts on the approach piers. At the level of the bottom chords, a floor system provides for a 52-foot-wide roadway that accommodates four lanes of southbound traffic. On each side of the bridge, there are two 9-foot-wide sidewalks. Opening and closing of the rim-bearing swing bridge is accomplished by hydraulic machinery. When the bridge is operated, the machinery rotates with the draw. Operation of the bridge is controlled from the operator's house, which is located on a platform that spans over the roadway.



Project Specifications:

Hydraulic Horsepower:	38 HP (diesel)
Hydraulic Motor:	32 CI/Rev
System Max Pressure:	3,000 PSI
System Max Flow:	18 GPM

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