Atlas offers approaches for beam and slab post-tensioned parking structures where equipment can be cycled in applications ranging from totally handset to sectionalized tieless beamforms and deck panels.
Atlas Garage Beam System

The Atlas garage beam system is a complete forming system designed specifically for post-tensioned beam and slab multi-story parking structures.

The garage beam system includes hinged and held frames and structural recommendations that simplify construction and reduce concrete construction costs.

Atlas provides a complete set of beams, shoring, forming and application recommendations. The flexible forming system is ready to use and can be quickly assembled and disassembled, allowing for efficient use of space and labor.

Atlas beam forms are faced with 3/16" steel skin plates for strength, durability and excellent concrete finish.

Atlas Garage Beam System

Deck Panels

Atlas deck panels are available either pre-fabricated and delivered ready to use, or can be field fabricated using aluminum beams and contractor’s plywood decking. Using 6 1/2" depth aluminum beams allows beam to beam centers of up to 20'-0" without center shoring.

Atlas Garage Beam System

Capital Forms

Atlas provides a cost efficient and effective approach to column capital forms using 1" HDO plywood and 3/4" rods as dry tie support.

Atlas Garage Beam System

Service

Field service personnel are available to assist during initial formwork assembly and movement or to assure uninterrupted progress.

Atlas Garage Beam System

Beam Forms

The Atlas garage beamform system consists of typically 60' length beam form assemblies that include high-capacity supports, column and capital forms, as well as deck forming panels. Form elements are stripped and moved to the next pour position with provided dollies and your sideshift forklifts.
The Atlas garage beam system is a complete forming system designed specifically for post-tensioned beam and slab multi-story parking structures. The system includes design and structural recommendations that simplify formwork and reduce concrete construction costs. Each project package includes detailed beam form installation drawings displaying all of the required components, including deck panel layouts and application instructions, for highly productive concrete placement.

**Beam Forms**

The Atlas beamform system consists of typically 60’ length beam form assemblies that include high-capacity supports, column and capital forms, as well as deck forming panels. Form elements are stripped and moved to the next pour position with provided dollies and your sideshift forklifts. Beam forms are faced with 3/16” steel skin plates for strength, durability, and excellent concrete finish.

**Atlas Garage Beam System**

The Atlas garage beam system was developed to cycle two sets of beamforms and deck panels through each other, including pour days. This approach minimizes labor costs while characteristically casting up to 30,000 sq. ft. of beam and slab area per week. First placed-first removed tieless beam sections are maneuverable sections with hinging towers. Second placed—second removed deck forms are 8 ft. wide full length panels held in place by deck panel hangers.

**Atlas Service Field**

Field service personnel are available to assist during initial formwork assembly and movement or to assure uninterrupted progress.

**Atlas Deck Panels**

Atlas deck panels are available either pre-fabricated and delivered ready to use, or can be field fabricated using aluminum beams and contractor’s plywood decking. Using 6½” depth aluminum beams allows beam to beam centers of up to 20’-0” without center shoring.

**Atlas Capital Forms**

Atlas provides a cost efficient and effective approach to column capital forms using 1” HDO plywood and 3/4” rods as dry tie support.
Atlas Garage Beam System

CONCRETE PLACEMENT POSITION

READY FOR TRANSPORT

BEAM DOLLY TO TRANSPORT BEAM FORM TO NEXT FOUR LOCATION

ATLAS BEAM FORM LOWERED AND TOWED TO NEXT FOUR

ATLAS FRAMES ARE HINGED UP AND HELD WITH FRAME HOOKS

STRIPPED 14" / 18" X 32" OR 36" CONC BEAM

STRIPPED 5" OR 5.5" CONC SLAB

DECK PANELS NOT SHOWN FOR CLARITY

4" LIDGER BEAM

8" LIDGER BEAM

ATLAS CONC SLAB

5" OR 5.5" CONC SLAB

14" / 15" X 32" OR 36" CONC BEAM

POST SHORE

GR

GR

ATLAS

ATLAS

ATLAS

ATLAS

ATLAS

ATLAS

ATLAS

ATLAS

ATLAS

11'-4"

11'-4"

10'-0"

10'-0"

10'-3"

10'-3"

10'-3"

10'-3"

11'-4"

11'-4"

11'-4"

11'-4"

5'-0"

5'-0"

5'-0"

5'-0"

ATLAS FLAT

4X6 FLAT

8" LEDGER BEAM

4X10 BRACE

FRAME HOOK

ATLAS BEAM SYSTEM

BAY WIDTH

NET CONCRETE BEAM LENGTH

NET ATLAS BEAM FORM LENGTH

BAY WIDTH

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Atlas Garage Beam System

CONCRETE PLACEMENT POSITION

READY FOR TRANSPORT
Deck Panels

Atlas deck panels are available either pre-fabricated and delivered ready to use, or can be field fabricated using aluminum beams and contractor’s plywood decking. Using 6½” deep aluminum beams allows beam to beam centers of up to 20’-0” without center shoring.

For deck panels that are built on site, fabrication details are provided.

Capital Forms

Atlas provides a cost efficient and effective approach to column capital forms using 1” HDO plywood and 3/4” rods as dry tie support.

Atlas garage beam form system components

The Atlas garage beam form system was developed to cycle two sets of beam forms and deck panels through each other, including pour days. This approach minimizes labor costs while characteristically casting up to 30,000 sq. ft. of beam and slab area per week. First placed-first removed tieless beam sections are maneuverable sections with hinging towers.

Second placed-second removed deck forms are 8 ft. wide full length panels held in place by deck panel hangers.
Atlas Garage Beam System

The Atlas garage beam system is a complete forming system designed specifically for post-tensioned beam and slab multi-story parking structures.

The garage beam system includes design and structural recommendations that simplify formwork and reduce concrete construction costs. With each new project, Atlas provides a detailed set of beamform installation drawings displaying all of the required components including a detailed deck panel layout.

The beamform, Aluminum AL-Speed shoring frames and components, deck system, dollies, carts and application instructions, for highly productive concrete placement, are inherent in each new project package.

Beam Forms
The forming system consists of typically 60'-length beam form assemblies that include high-capacity supports, column and capital forms, as well as deck forming panels. Form elements are stripped and moved to the next pour position with provided dollies and your sideshift forklifts. Beam forms are faced with 3/16" steel skin plates for strength, durability and excellent concrete finish.

Service
Field service personnel are available to assist during initial formwork assembly and movement or to assure uninterrupted progress.

Placement Position
Long span deck panels allow for large, clear work space access and mobility of forklifts.

Ready for Transport
Deck panels remain suspended by deck panel bolts as the beam form is lowered. Beam forms are then towed to the next pour position and set.

The Atlas beamform system is designed to use the least amount of formwork and labor necessary to speed the construction cycle.
Atlas offers approaches for beam and slab post-tensioned parking structures where equipment can be cycled in applications ranging from totally handset to sectionalized tieless beamforms and deck panels.