

**TECHNICAL
BRIEF**

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BTM Storage Facilities

The best place to store Barrier Transfer Machine (BTM) is either on the Quickchange® Movable Barrier (QMB) wall or as close to the QMB wall as possible. This reduces the amount of laden travel required by the machine, which reduces normal wear and tear and hence operating costs.

Storage During Construction Projects

During construction projects the BTM is almost always stored outside and usually on the end of the QMB wall where the QMB protects the machine as outlined in figure A or tucked behind the wall or a section of Portable Concrete Barrier. In all cases the construction BTM's are durable and designed to be stored outside in all weather conditions. Most construction jobs last a few months to 2 years.

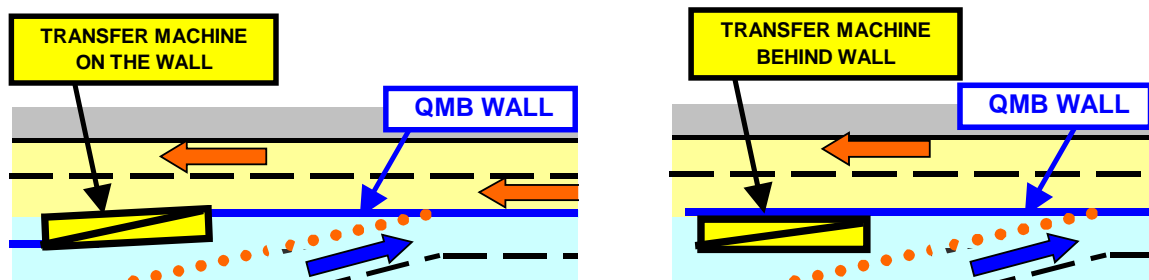


Figure A BTM stored on and behind QMB wall

Permanent Storage Facilities

Some customers have chosen to build small or large garages to store their BTM. The primary reasons are as follows:

1. It provides a location for fully integrated storage and maintenance facility, including spare parts storage, fluid storage and changing, compressors and other tools, lighting & electrical power etc.
2. The storage area was in a high crime area and to protect against vandalism the BTM's are stored inside and locked up.
3. For esthetic reasons it was determined the BTM's would be kept parked inside a building rather than visible on the highway.

All of these are appropriate reasons to build garages. Each customer has to decide what is best for their application. However a garage is not required and the BTM's are built to be stored outside. With normal maintenance both the appearance and the reliability of the BTM should not be compromised.

For those interested in garages we have included some basic information that shows the wide differences in both sizes and styles that we have seen.

Location / Machine size	Barn size	Notes
Midtown Tunnel Viaduct NY 9.5 ' by 56' 2.89 M by 17.1M	Holds one BTM 30' by 70' 9.2M by 21.3M	High crime area Quonset type building used for parts storage and tools. Located under bridge.
Hawaii H1 12' by 66 ' 3.7M by 20.2M	Holds two BTM's 30 'by 160' 9.2M by 48.8	Very large concrete tilt up with water and power. Located in Median.
Gowanus Expressway NY 12' by 66 ' 3.7M by 20.2M	No garage BTM stored on an off ramp	
Dallas I 30 East 12' by 66 ft 3.7M by 20.2M	Two garages each 80' by 30' 9.2M by 24.4M	Facility has parts and repair plus outside storage for spare barriers. Agency also uses addition onto one building for HOV staff. Both garages located in center median.



Midtown Viaduct garage NY



Rear view of H1
garage



Inside view of H1 garage,
can store two BTM's end
to end