SPECIALTY TOOLS

BARRIER LIFTING TONGS
(PART# C071005)

Barrier lifting tongs are for the installation and removal of 1 to 2 concrete barriers. This tool is mainly used to replace a damaged barrier in the wall. They have been used for setting a long wall, but are much slower than using a Forklift Double Lifting device.[see next page] When lifting 2 barriers at the same time, the center pin must be installed and e-clipped.

A laborer or ground person must place tong over T-Top of concrete barrier, (Caution! There are pinch points, so care must be taken while using this tool to only hold the tool by the handles.)

The picture above shows a forklift making the lift, any piece of equipment capable of lifting 3000lbs (1360kg) can be used to lift the barrier either 1 or at a time. Examples of other equipment would be; Crane, backhoe, excavator, boom truck.
Double lifting device is a fork lift attachment used to transport a pair of QMB. They are the most efficient tool for setting the wall, loading and unloading barriers, and stacking QMB in the storage area.

Place forks into slots on top of device.

Secure device using chain and bolt that is provided. (Caution! Assure when attaching chain that you don’t interfere with the side shift capability of the forklift)

The operator must slowly and carefully insert the lifting device under T-Top of QMB to avoid damage.

Once the tool is fully engaged, one may lift and transport QMB to wherever it is needed. Care must also be exercised when backing off the barrier to insure that the forklift does not turn until the tool is FULLY DISENGAGED from the barrier.
NOTE

1. Lifting device must be used by equipment rated for a minimum of 4000 LBS (1800 kilograms) lift at a distance of 1m from the fork tower.

2. In order to protect the barrier the handling tool has pads on the lifting surfaces. The white tips (Part # A011002 Right hand tip A021003 Left hand tip) and Red Rubber pads (Part # B960606 Right hand pad, B011003 Left hand pad) must be intact as to not damage (chip) the barrier). These parts should be inspected every 20 minutes during operation.
The conveyor wheel replacement tool is used to facilitate conveyor wheel replacement. Its use is shown above and fully detailed in Technical Brief TB 091120-Rev. 0.

A special wheel wear gauge is supplied as shown in figure 1 below. Its use is fully detailed in the conveyor wheel replacement Technical Brief TB 091120-Rev. 0.

Figure 1
Wear Gauge in Position
Manual Pin Pulling Tools

The three manual pin pulling tools are shown above. Clockwise they are the special extra heavy duty pin pulling 1.8m (6 foot) pry bar, the pin pulling ladder, and the pin puller (clamping device). Their use is fully detailed in technical brief TB 091119-Rev. 0. The pry bar may also be used for pounding the pins into place and for maneuvering the barriers on the ground.