

# Hydraulic Side Bar Inserter (SBI)

## Step by Step

The GOMACO Hydraulic Side Bar Inserter (SBI) is designed to insert straight tie bars into the side of a newly paved slab using hydraulic force to insert the bar. Vibration, which is adjustable in a range of 2000 to 6000 vpm, is applied to the bar during the insertion process to assist with penetration and also consolidation of material around the bar. The insertion apparatus maintains its position with the side of the slab, as the paver continues to move forward during insertion of the bar. The SBI can be fitted to either the left side or right side of the paver or an inserter can be placed on both sides.



**1:** The operator moves the inserter apparatus to the forward or home position using the handle attached to the device.



**2:** The operator places the tie bar to be inserted into the device ready for insertion and begins to monitor the distance gauge rod mounted to the inserter. Once the paver has advanced forward to the point the gauge rod is aligned with the previously inserted side bar, the operator activates the "Start Insertion" toggle switch.



**3:** As the insertion process is started, the vibration will be turned on and the hydraulic cylinder will begin to insert the bar. The operator simply holds or guides the handle on the inserter to keep it stationary with the side of the slab as the paver continues to move forward.

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**4:** Once the tie bar has been inserted to the proper depth, a proximity switch will be activated, which will stop the vibration and switch the hydraulic valve to retract the hydraulic cylinder to make ready for loading the next tie bar for insertion.

**5:** As the insertion cylinder is being retracted, it will activate a second proximity switch, safely stopping the device and preventing all hydraulic movement until the operator activates the "Start Insertion" toggle switch.

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**6:** The operator then moves the inserter apparatus to the forward or home position with the attached handle and the process can begin again.