

# Independent IDBI Attachment

## Step by Step



HW-091.007 D4

GOMACO's independent IDBI attachment is a fully automated system for four-track pavers. It features the exclusive G+® control system which manages the timing and operation of the IDBI functions. The process starts when a bar loading trolley travels across the paving width and loads a bar into each individual tray. The accuracy of GOMACO's patented loading system accounts for the proper number of bars inserted into the slab. Several of the IDBI concepts, systems and components hold United States and International patents.



HW-100.905 D4

**1:** The bar loading trolley places a bar into each individual bar loading tray across the entire width of the new pavement.



CG-071106 D5

**2:** The forks wait in stand-by mode for the insertion point to be signaled by the G+ control system. The bar loading trays have adjustable-height bar extractors and the trays have been designed for easy bar spacing and width changes to meet each project's exacting specifications.

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CG-030909 D17

**3:** Vibration is applied to the forks on insertion to consolidate and close the concrete around the inserted bars. The vibration to the forks is variable, up to 7500 vpm. The paver never stops during the insertion process. GOMACO's exclusive computer-controlled smart cylinder technology provides the state-of-the-art system to maintain the accountability of the depth of the bars upon insertion into the slab.



HW-100907 D15

**4:** The patented insertion forks have been designed to provide the industry standard in bar placement accuracy. The holders on the heel and toe of the insertion forks ensure the most accurate bar placement. The fork design and vibration reduces the amount of scarring on insertion and enhances consolidation of material around the bars.



HW-090905 D8

**5:** The IDBI attachment's finishing process includes a tamper bar, unique oscillating straightedge, paving pan and stainless steel that follow the bar inserters and repair the scarring from the insertion process.

## GOMACO's Exclusive G+® Control System for the Independent IDBI Attachment-

<p><b>GOMACO</b> IDBI In-This-Pan-Down-The-Insertion Copyright © 2008 - GOMACO Corporation</p>	<p><b>Active Faults</b></p> <table border="1"> <thead> <tr> <th>ID</th> <th>Status</th> <th>Count</th> <th>SA</th> <th>Lamp</th> </tr> </thead> <tbody> <tr> <td>0038</td> <td>08</td> <td>09</td> <td>0x10</td> <td>0</td> </tr> </tbody> </table> <p>Cylinder 1 Feedback Value out of range</p> <p>Smart Cylinder 1 Fault, Open or Short</p>	ID	Status	Count	SA	Lamp	0038	08	09	0x10	0	<p><b>Machine Setup</b></p> <table border="1"> <tr> <td>1 Units</td> <td>4 DBI Fire Mode</td> </tr> <tr> <td>2 English</td> <td>Encoder</td> </tr> <tr> <td>3 Cart Load Side</td> <td>4 Early Proxi Fire Warning</td> </tr> <tr> <td>Encoder Enable</td> <td>5 Prize Offset</td> </tr> </table>	1 Units	4 DBI Fire Mode	2 English	Encoder	3 Cart Load Side	4 Early Proxi Fire Warning	Encoder Enable	5 Prize Offset	<table border="1"> <thead> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> </tr> </thead> <tbody> <tr> <td>15,00</td> <td>12,00</td> <td>14,00</td> <td>13,00</td> <td>10,00</td> </tr> <tr> <td>DBI</td> <td>TBI</td> <td>A/M</td> <td>Count Down</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>9.10</td> <td></td> </tr> <tr> <td>35.98 ft</td> <td>8.3 ft/min</td> <td>293</td> <td></td> <td></td> </tr> </tbody> </table>	1	2	3	4	5	15,00	12,00	14,00	13,00	10,00	DBI	TBI	A/M	Count Down					9.10		35.98 ft	8.3 ft/min	293		
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The IDBI controls have all been designed in-house by GOMACO controls engineers. Its new GOMACO G+ control system is easy to learn and operator-friendly. The IDBI information is presented in a multi-colored graphical display, commands are presented in full text, and it is able to operate in several languages, by customer's choice. It offers the choice of metric or imperial measurements. The new IDBI control system also provides troubleshooting capabilities and other features that will make start up and general paving each day faster and easier. Many projects require both dowel bars and tie bars to be inserted into the concrete slab, and the G+ control system manages all of the bar inserters (front, side, and independent IDBI attachment).



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