



# GWconnect® INDUSTRIAL AUTOMATION

## GWconnect Heavy Duty Connectors Feature an Innovative Hood Design That Automatically Locks Out Dust and Liquid

### BUSINESS CHALLENGE

Harsh industrial environments found in the food and beverage, oil and gas and automotive industries are exceptionally punishing on electrical and electronic equipment. Some of the most at-risk components are the heavy-duty connectors that provide power, signal and communication to critical systems such as robotics and packaging machinery.

The primary role of an industrial connector is the ability to maintain a secure and reliable connection. But liquids and dust can make their way into the connector housing during connect or disconnect, ultimately leading to outages and downtime. While most heavy duty industrial connectors come standard with a spring-loaded cover door that closes the housing during disconnect, a spring alone does not fully compress the cover gasket enough to form an adequate seal. An operator working on the plant floor must manually close a lever properly to seal the cover.

Because operators have a highly demanding job and a difficult work environment, they often forget to close the lever. Over time, the results can be catastrophic, allowing liquid into the connector and causing system failure that is often hard to pinpoint. Once identified, the connector needs to be re-wired and tested which is a time consuming and costly process.

### SOLUTION

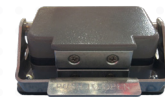
GWconnect Heavy Duty Connectors (HDC) feature a patented hood design that automatically snaps down to form a tight seal.

The GWconnect hood design provides added protection even if the operator skips the extra step of engaging the locking lever. Similar to existing solutions, the GWconnect connector uses a spring to automatically close the cover. However, the design goes one step further by incorporating super-strong Neodium magnets that tightly pull the cover against the gasket seal for an automatic IP66 level of protection. So, if the operator forgets to engage the hood lever, the automatic cover still provides a high level of protection from liquids. If the operator does engage the lever, the rating increases to a full IP69.

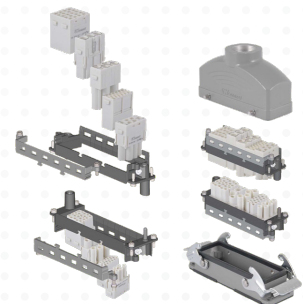
### CUSTOMER BENEFITS

The automatic cover found in GWconnect HDCs provides instant IP66 protection critical for harsh industrial environments.

There are many examples where an operator would need to disconnect and reconnect machinery, including when the processing line is being reconfigured. By ensuring the connector is fully protected, the GWconnect connector design makes this process more efficient while greatly reducing the chance of connector failure to help keep the manufacturing running smoothly, ultimately reducing downtime and providing significant cost benefits.



Patented magnet lock  
- a simple yet effective closure system



All GWconnect components are fully interchangeable with other major brands of industrial connectors



When the spring closes the cover, magnets tightly squeeze the cover closed. The result is an automatic IP66 seal that reaches a full IP69 seal when the lever is locked

To learn more [www.molex.com/ab/gwconnectautocover.html](http://www.molex.com/ab/gwconnectautocover.html)