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MIDC loading system



The proper loading of fresh catalyst is the most important step in a catalyst change-out, as it has a direct effect on the reactor performance and the lifespan of the catalyst. Mourik is continually working on improving its loading methods.

With the MIDC loading system, we will greatly improve the efficiency and quality of catalyst loading in tubular reactors, as well as the safety of the loading process.

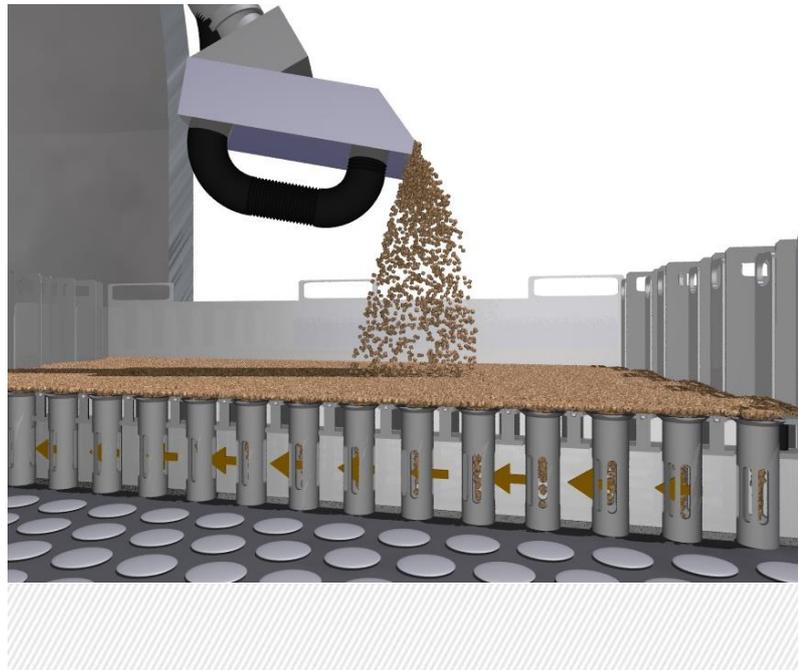
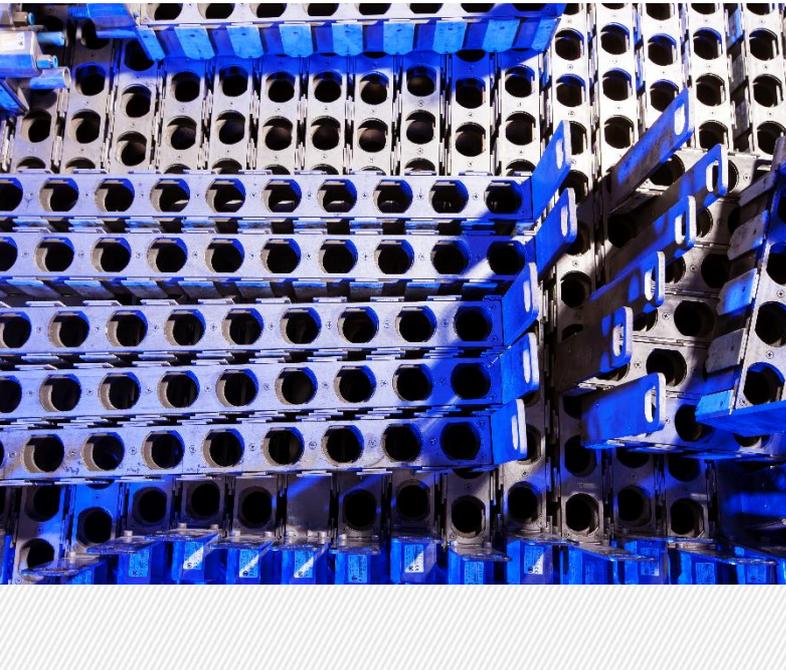


MIDC loader stands for Modular Insert De-dusting Catalyst loading system. The MIDC loading system improves on techniques already performed by Mourik, like template loading and machine loading.

The MIDC loading system is a modular system. By combining the MIDC modules, the system can reach every tube on the tube sheet. It can be built round coolant pipes and other obstacles. It can allow any radius and can reach every tube.

If the tubes in a section are loaded, the loading hose is moved to a second section. The MIDC modules are removed from the first section, and a third section, next to the first one, is being prepared. This ensures continuous loading of the reactor.

MIDC loading system



The high-frequency vibration system, the three-way de-dusting system, and the modular setup ensure a fast and efficient loading process.

Each module has a high-frequency vibration motor and a connection to the vacuuming system. Because vibration is used, there is no mechanical pressure on the catalyst and there are no workers sweeping the catalyst. This minimizes the risk of damaging the catalyst.

The MIDC loading system will extract dust from the catalyst at three different points:

1. At the de-dusting hopper on top of the reactor
2. At the de-duster on the end of the four-inch loading hose inside the reactor
3. On the MIDC loaders, just before the catalyst drops into the tubes by the unique design of the inserts.

The development of the MIDC loading system is the next addition to Mourik's continuous efforts to improve catalyst loading techniques, ensuring efficiency and safety, and maximizing catalyst performance.

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