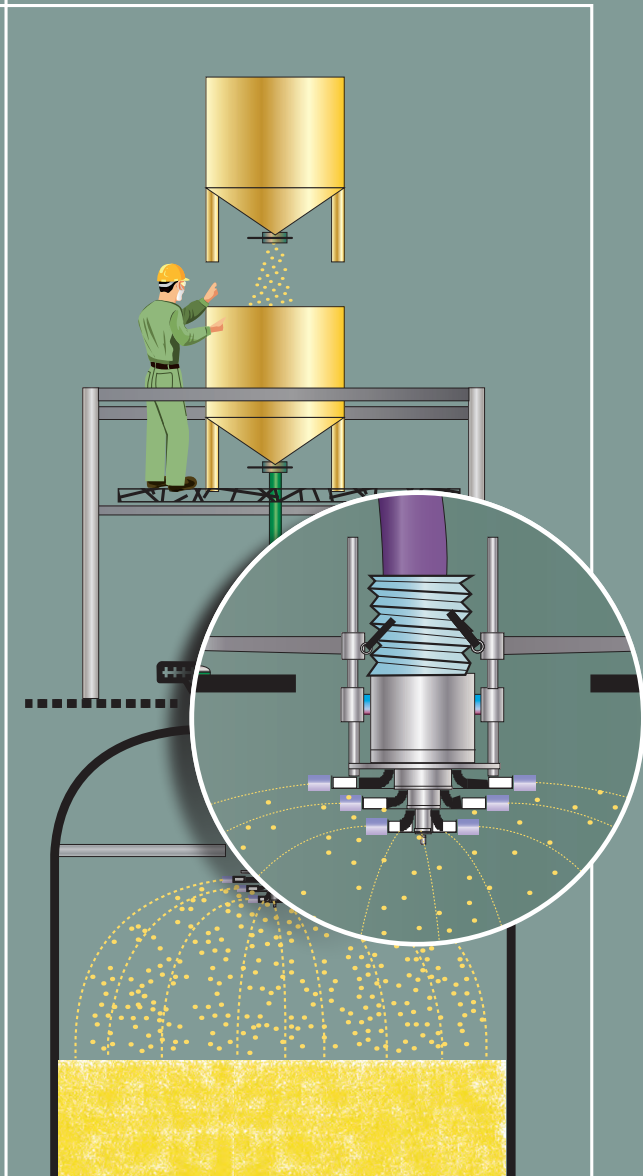


The CALYDENS

dense loading system



Decades of industrial dense loading and feedback experience went into the development of the Calydens system. Not only does it enable up to 25% more material in vessels, it lays the particles down homogeneously, gently, swiftly and safely. There is no need to enter the reactor during the loading operation.

There are many attractive applications where Calydens can increase performance: reactors, adsorbers, dessiccant driers, and particle storage vessels to name a few.

The new technique has been applied and accepted by several important players in the hydrocarbon processing industry.

The top performing catalyst and adsorbent dense loading system

Proven and reliable performance.

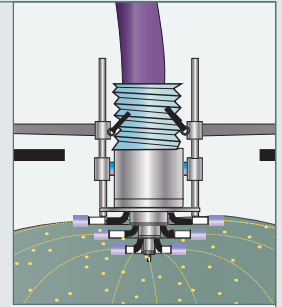
The CALYDENS dense loading system

Advantages of CALYDENS compared to the existing dense loading systems:

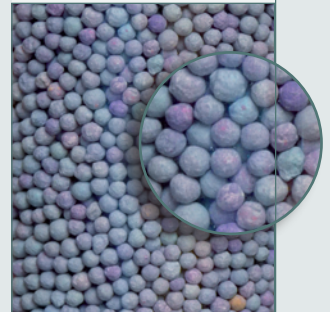
- The highest loading rate (20m³/h),
- Optimal catalyst distribution,
- Very light and easily portable equipment (15kg), 15 mn to install.
- No abrasion, no fines generated during loading,
- Built-in accessories precisely control and perform the loading operation.
- The latest technology for your operators.



SOCK LOADING

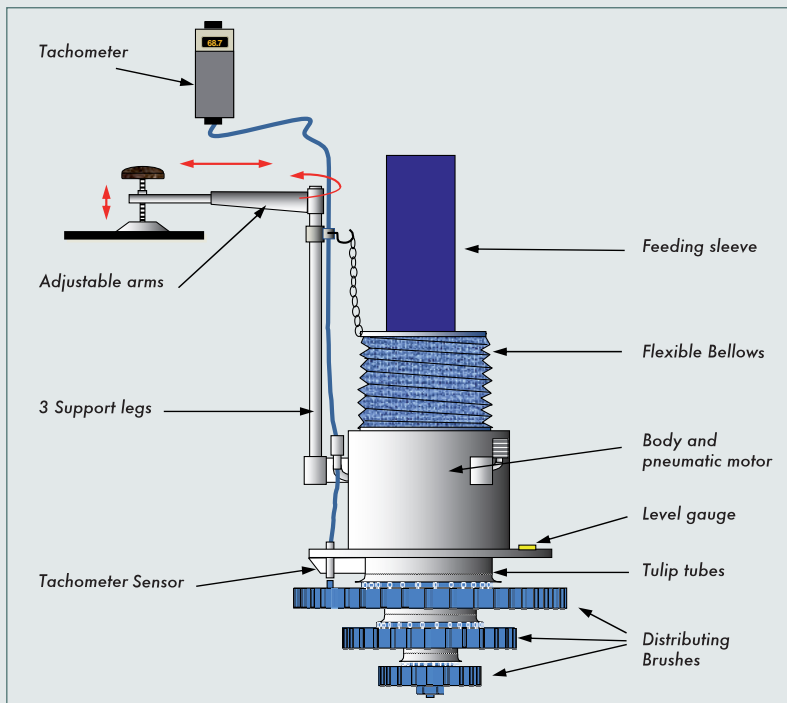


DENSE LOADING



These zones of low density, with large voids will appear close to the reactor shell. The fluid will circulate here preferentially which will result in channeling in the catalytic bed.

With more uniform flow distribution overall catalyst performance is improved substantially. Moreover, as the large void spaces are eliminated, **up to 25% more catalyst can be loaded.**



We can perform the dense loading operation at your site with our experienced technicians or we can train your operators and rent the Calydens system on an annual basis.