



# Edelhoff Dense Loading System 2020

## Technical Information



You can now make use of our technically optimized and job tested new generation of Edelhoff Dense Loading Machines (DLM) for your reactor loading! It preserves your valuable catalyst better than ever and thus extends the material's period of use.

Our tried and tested DLM, which has been continuously developed since 2002, ensures that the catalyst material is distributed evenly, smoothly and dust-free in the reactor. It results in the desired homogeneous and tight sealing of the individual catalyst particles with a significantly higher filling volume.

The continuous control of the inflow quantity and rotary speed of the filling motor as well as the length and shape of the flexible, star-shaped product deflector which is arranged over several layers guarantee a sparing and economic loading for each reactor bed size.

## Benefit from experience!

All practical application experiences are incorporated into the DLM Generation 2020:

- Our customers have carried out globally-successful reactor loadings with Edelhoff Dense Loading Systems for almost ten years.
- The Edelhoff Dense Loading Technology was constantly reviewed and further developed in cooperation with the customers.

- The qualitative high-grade theoretical education and the practical on-the-job training for operators were implemented thoroughly.
- Not to forget, our name stands for more than 50 years of technical experience in handling diverse bulk goods. As a result, the DLM Generation 2020 offers you an individual system which:
- is even better protected against breakdowns through dust and damage in transit

- can be installed even quicker
- can be technically adapted even more flexibly to the on-site conditions without the need for reconstruction
- ensures the catalyst is distributed even more evenly the catalyst material is handled even more sparingly
- regulates the material flow in a more controlled way

## Rent your DLM 2020:

You have three options as regards introducing DLM systems:

1. Three year lease contract or
2. Three year lease contract including Full-Service Package "servicing and technological upgrading"
3. Lease contract on a daily basis (as an addition for three years contract on request)

**No other licence-fee accrues for you!**

On request, we also arrange for a DLM qualified member of service staff from our cooperation partner to implement your catalyst loading.



## Take a closer look at the development of the DLM 2020!

- **Central product supply:**  
The volumetric exhaust flow of the catalyst is solely defined by the central product supply. An uncontrolled product discharge is therefore absolutely excluded.
- **Quick release system for the flow quantity control:**  
The Material Flow Control discs graded in 5 mm diameter steps which regulate the inlet quantity of the catalyst on the rotating strips can now be changed externally while the device is assembled in less than 10 seconds. Time saving is around 20 minutes/change.
- **Arrangement of strips:**  
Flexible strips arranged on four levels with different numbers of each level guarantee the catalyst is distributed almost dust-free and smoothly in the distributor.
- **Fine alignment of the inflow quantity:**  
The use of facing discs on the strip rotary blades allows the inflow quantity which is pre-aligned by the Material-Flow-Control discs to channel to the requested distribution levels and thus improve the loading structure in the reactor.
- **Balanced three point adjustment:**  
A balanced three point adjustment was mounted onto the DLM with screw-on extensions, whereby a time-consuming and expensive installation of auxiliary constructions on the reactor entrance is not necessary.
- **Stub wings on the ends of the shaft (alternative):**  
According to the type of catalyst and reactor, the catalyst material flowing through the Strip Holder discs reaches a so-called "stub wing" at the end of the shaft which also distributes the material smoothly and evenly at this point for an optimal loading result.
- **Control unit protection:**  
The control unit (for compressed air and motor rotating speed) is built into a switch box which protects the aggregate against dust and damage in transit.
- **Compact unitized construction system:**  
The entire system is mounted into an aluminium container, the internal design of which makes it easy to test the completeness of all construction components.



**Want to know more? Then get in contact with us!**

contact: Frauke Blank · mobile: (+49) 173 9131250 · email: [info@edelhoff-technologies.com](mailto:info@edelhoff-technologies.com) · phone: (+49) 2374 929737  
Edelhoff GmbH Catalyst Handling Technologies · Bergstr. 16-20 · D-58642 Iserlohn · [www.edelhoff-technologies.com](http://www.edelhoff-technologies.com)