

# OUTLET SUPPORT GRID (OSG)

The Outlet Support Grid (OSG) from Woven Metal Products (WMP), developed in partnership with Haldor Topsoe, was created to obtain a lower pressure drop in Axial Flow Reactors.

## ***The OSG Can Help Units Achieve a Pressure Drop up to 75% Lower.***

Woven Metal Products' proprietary design of this improved support grid is optimized with respect to pressure drop, therefore reducing operating costs substantially by decreasing energy consumption and increasing production. This state-of-the-art OSG is easy and fast to install with a short fabrication window, in as little as six weeks.

### **Key Advantages to the OSG**

#### ✓ **Lower Pressure Drop**

The support grid is uniquely designed to minimize the pressure drop at the reactor outlet system. A pressure drop reduction of up to 75% over the reactor can be achieved compared to traditional support grids or standard outlets. The lower pressure drop can be used for energy savings or to increase the production capacity.

#### ✓ **Additional Catalyst Capacity**

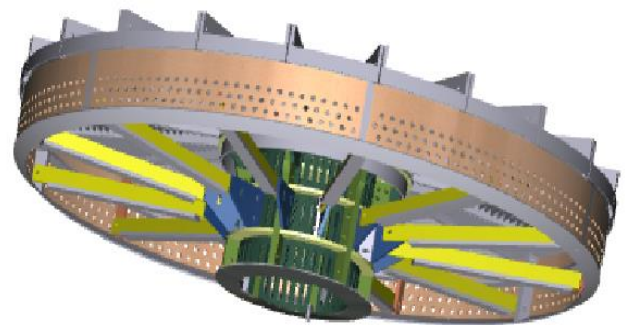
Due to the optimized design, the OSG sits at a lower position in the bottom of the vessel compared to typical installations, allowing for more catalyst. This in turn creates improved output, efficiency and increased production.

#### ✓ **Easy Installation**

The OSG is tailor-made for each reactor, therefore customized for fast and easy installation through its existing manway. There is no need for approval by pressure vessel authorities as no welding is required. No packing rope or insulation is needed to seal the grid and it can easily be retrofitted to existing vessels. The typical installation time is in the range of 24 hours for one reactor.

#### ✓ **Support Materials Savings**

Significant savings in the amount of support material required can be attained by installing the OSG. In addition to cost savings, it also reduces the workload and downtime associated with the unloading and loading of the reactors. The payback time for the OSG is normally just a few months.



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