

# OUTLET SUPPORT GRID (OSG)

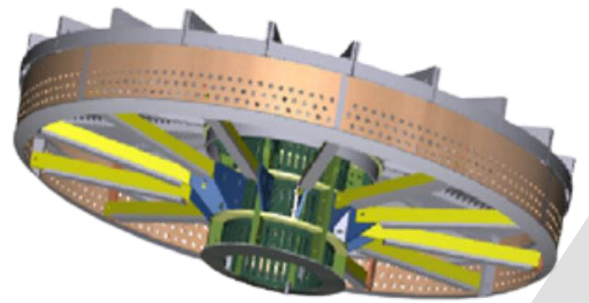
Woven Metal Products (WMP) created the Outlet Support Grid (OSG) for Axial Flow Reactors in partnership with Topsoe after years of research and development.

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

Our proprietary, patented OSG design reduces customers' operating costs by decreasing energy consumption and increasing production. WMP's 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. Users can achieve a pressure drop reduction of up to 75% over the reactor compared to traditional support grids or standard outlets.
- ✓ **Additional Catalyst Capacity**  
With its optimized design, the OSG sits at a lower position in the bottom of the vessel compared to typical installations, allowing for up to 40% more catalyst. This creates improved output, efficiency and increased production.
- ✓ **Easy Installation**  
The OSG is tailor-made for each reactor and is customized for fast and easy installation through the 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 average installation for a single reactor typically falls within a 24-hour timeframe.
- ✓ **Support Materials Savings**  
Installing the OSG can lead to substantial reductions in the amount of support material needed. In addition to cost savings, it also reduces the workload and downtime associated with unloading and loading reactors. The payback time for the OSG is normally just a few months.



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