CATALYTIC COMBUSTION
EMISSION TECHNOLOGIES

DIESEL OXIDATION TRAP CATALYST (DOTC)

An Effective Catalyst System

Active Component
Optimized precious metal content for efficient oxidation of diesel particulate matter.

Substrate
Our Herringbone foil geometry enhances the contact between the exhaust flow and catalyst surface improving the utilization of the Active Components.

Carrier
A high surface area coating tailored for long life durability under demanding duty cycles.

Flexible Catalyst Sizes
Our DOTC technology can be produced in a wide range of catalyst module sizes to fit your existing housings.

CUSTOM DESIGNS AVAILABLE

Metal Foil Based Diesel Particulate Matter Control

Our DOTC technology oxidation catalyst system captures diesel particulate matter (DPM) or soot from diesel engines. Utilizing our proprietary metallic foil-based catalyst system, engineered and manufactured by Catalytic Combustion Corporation. In addition to PM, the DOTC oxidizes carbon monoxide (CO) and hydrocarbons (HC) emissions. The DOTC technology is a passive regeneration system.

Features:

- Low pressure drop vs. traditional diesel particulate filters (DPFs)
- Lower cost and less maintenance than traditional Diesel Particulate Filters (DPFs)
- Reduces diesel smoke and odor
- Looks, installs and operates similarly to a traditional diesel oxidation catalyst (DOC)

Applications

- Construction equipment
- Material handling
- Locomotive
- Earth moving
- Marine
- Agricultiural equipment
- Stationary engines – Prime or Stand-By (~10kW to 20MW)

Achievable Emissions – Comparing Technologies

Performance	Diesel Oxidation Catalyst (DOC)	Diesel Oxidation Trap Catalyst (DOTC)	Diesel Particulate Filers (DPF)
Price point	Lowest	Middle	Highest
Diesel Particulate Matter (DPM) %	15-40%	40-75%	80% +
CO	90% +	95% +	None
HC	40% +	90% +	None
Smoke and odor control	Good	Better	Best

**Actual reduction depends on engine out emissions and duty cycle.*