

ACAT UNIVERSAL CONVERTERS

4" and 5" spun bodies or stuffed tubes with end caps from 1.75" to 3" ID openings. Made to customers specifications with different substrate precious metal loading.



ACAT UNIVERSAL CONVERTERS

- 4" and 5" spun bodies or stuffed tubes with end caps from 1.75" to 3" ID openings.
- Made to customers specifications with different substrate precious metal loading.
- Good, better, best performance and heavy duty loading of precious metals.

CATALYTIC CONVERTERS

From research and design, to fabrication...



CATALYTIC CONVERTERS

From research and design to fabrication, ACAT adheres to industry-best engineering and manufacturing practices to meet the needs of automotive OEMs for replacement catalytic converters as well as down pipes, mufflers, resonators and other exhaust system components.

Excellent durability and performance are assured through ACAT's exclusive use of OE-level catalytic converter substrates. We work with the world's leading suppliers to secure the precious metal catalytic coatings required to meet or exceed U.S. EPA emissions standards. Our product line is EPA compliant even for the most problematic applications, including European and Asian makes.

All products are supported by ACAT's in-house engineering resources to optimize designs for ease of installation. As a result, brackets, hangers and flanges line up perfectly with that of the original equipment.

A world-class resource in every respect, rely on ACAT for:

- Direct-fit catalytic converters
- Universal-fit catalytic converters
- Pre-bent exhaust pipes
- Mufflers and resonators
- Components and accessories

UNIVERSAL CATALYTIC CONVERTER For ATV



ACAT PERFORMANCE CATALYTIC CONVERTER PERFORMANCE

Harmful Emission (Products of Incomplete Combustion)			Less-Harmful Emissions (By-Products of Complete Combustion)	
HC	Hydrocarbon	Unburnt Fuel	H ₂ O	Water
CO	Carbon Monoxide	Partially Burned Fuel	CO ₂	Carbon Dioxide
NOx	Oxides of Nitrogen	Extreme Combustion Temperature	N ₂	Nitrogen

ACAT Universal Catalytic Converter For PUV's Improves Exhaust Flow, Increases Power, Reduces Emissions.

Each **lightweight**, universal-fit, **high performance** catalytic converter uses ACAT's proprietary **metallic herringbone substrate technology** which **flows more freely** increases **horsepower and torque**, improves **fuel economy**, delivering **OEM durability** and **reduced emissions**.

BETTER FUEL ECONOMY: Lower cells per square inch improves flow for increased fuel economy.

MORE EFFICIENT EMISSIONS: Passing through a turbulent maze; particulate removal improvements as high as 44% have been documented.

IMPROVED EXHAUST TONE: Proprietary herringbone technology means less noise and vibration while dampening harshness of tone.

INCREASED POWER AND TORQUE: Reduces back pressure for better performance and dyno-proven horsepower gains.

LIGHTWEIGHT DESIGN: Smaller and lighter designs. Total exhaust systems can be 4 to 8 pounds lighter in V8 applications.



UNIVERSAL CATALYTIC CONVERTER UTV

ACAT Performance's catalytic converter for UTV will deliver dyno-proven increases in both horsepower and torque. Benefits include increased miles per gallon, lower emissions, and more rugged durability in a smaller and lighter configuration.

Each universal catalytic converter for UTV surpasses all other universal catalytic converters on the market in performance, design, and longevity. ACAT's universal catalytic converter body for UTV is manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around ACAT's Proprietary Herringbone Metallic Monolith. The ACAT Performance universal catalytic converter for UTV has an exterior shell that is cooled by -300°F to -400°F 3M[®] Interam[®] 1600HTE Series Non-Intumescent Mat Mount Material.

Note: All Federal catalytic converters meet EPA requirements. Federal Catalytic Converters are not legal for sale, installation or use with licensed vehicles in the state of California or any other states that have adopted California Air Resource Board (CARB) Emissions Requirements.



UNIVERSAL CATALYTIC CONVERTER WATERCRAFT

ACAT Performance's catalytic converters for watercraft deliver dyno-proven increases in both horsepower and torque. Benefits include increased miles per gallon, lower emissions, and more rugged durability in a smaller and lighter configuration.

Each universal catalytic converter for watercraft surpasses all other universal catalytic converters on the market in performance, design, and longevity. ACAT's universal catalytic converter for watercraft has a body manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around ACAT's Proprietary Herringbone Metallic Monolith. The ACAT Performance universal catalytic converter for watercraft has an exterior shell cooled by -300°F to -400°F 3M[®] Interam[®] 1600HTE Series Non-Intumescent Mat Mount Material.

Note: All Federal catalytic converters meet EPA requirements. Federal Catalytic Converters are not legal for sale, installation or use with licensed vehicles in the state of California or any other states that have adopted California Air Resource Board (CARB) Emissions Requirements.

UNIVERSAL CATALYTIC CONVERTER For SNOWMOBILE

UNIVERSAL CATALYTIC CONVERTER SNOWMOBILE

ACAT Performance's catalytic converters for snowmobiles deliver dyno-proven increases in both horsepower and torque. Benefits include increased miles per gallon, lower emissions, and more rugged durability in a smaller and lighter configuration.

Each universal catalytic converter for snowmobiles surpasses all other universal catalytic converters on the market in performance, design, and longevity. ACAT's universal catalytic converter for snowmobiles has a body manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around ACAT's Proprietary Herringbone Metallic Monolith. The ACAT Performance universal catalytic converter for snowmobiles has an exterior shell cooled by -300°F to -400°F 3M[®] Interam[®] 1600HTE Series Non-Intumescent Mat Mount Material.

Note: All Federal catalytic converters meet EPA requirements. Federal Catalytic Converters are not legal for sale, installation or use with licensed vehicles in the state of California or any other states that have adopted California Air Resource Board (CARB) Emissions Requirements.



UNIVERSAL CATALYTIC CONVERTER For MUSTANG

ACAT PERFORMANCE CATALYTIC CONVERTER PERFORMANCE

Harmful Emission (Products of Incomplete Combustion)			Less-Harmful Emissions (By-Products of Complete Combustion)	
HC	Hydrocarbon	Unburnt Fuel	H2O	Water
CO	Carbon Monoxide	Partially Burned Fuel	CO2	Carbon Dioxide
NOx	Oxides of Nitrogen	Extreme Combustion Temperature	N2	Nitrogen

ACAT Universal Catalytic Converter For PUV's Improves Exhaust Flow, Increases Power, Reduces Emissions.

Each **lightweight**, universal-fit, **high performance** catalytic converter uses ACAT's proprietary **metallic herringbone substrate technology** which **flows more freely** increases **horsepower and torque**, improves **fuel economy**, delivering **OEM durability** and **reduced emissions**.

BETTER FUEL ECONOMY: Lower cells per square inch improves flow for increased fuel economy.

MORE EFFICIENT EMISSIONS: Passing through a turbulent maze; particulate removal improvements as high as 44% have been documented.

IMPROVED EXHAUST TONE: Proprietary herringbone technology means less noise and vibration while dampening harshness of tone.

INCREASED POWER AND TORQUE: Reduces back pressure for better performance and dyno-proven horsepower gains.

LIGHTWEIGHT DESIGN: Smaller and lighter designs. Total exhaust systems can be 4 to 8 pounds lighter in V8 applications.



UNIVERSAL CATALYTIC CONVERTER FORD MUSTANG

Each ACAT universal catalytic converter for Ford Mustang surpasses all other universal catalytic converters on the market in performance, design, and longevity. ACAT's universal catalytic converters for Ford Mustang have a body that is manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around your choice of ACAT's Proprietary Herringbone Metallic Monolith or ACAT's economical ceramic monolith.

Note: All Federal catalytic converters meet EPA requirements. Federal Catalytic Converters are not legal for sale, installation or use with licensed vehicles in the state of California or any other states that have adopted California Air Resource Board (CARB) Emissions Requirements.

HERRINGBONE METALLIC – ACAT Performance's High Performance universal Herringbone Metallic catalytic converter for Ford Mustang will deliver dyno-proven increases in both horsepower and torque. Benefits include increased miles per gallon, lower emissions, and more rugged durability in a smaller and lighter configuration

CERAMIC MONOLITH – ACAT's Economical Ceramic universal catalytic converters for Ford Mustang have a rugged, durable body that is manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around ACAT's economical ceramic monolith.



UNIVERSAL CATALYTIC CONVERTER FORD PICKUP AND SUV

Each ACAT universal catalytic converter for Ford Pickup and SUV surpasses all other universal catalytic converters on the market in performance, design, and longevity. ACAT's universal catalytic converters for Ford Pickup and SUV have a body that is manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around your choice of ACAT's Proprietary Herringbone Metallic Monolith or ACAT's economical ceramic monolith.

Note: All Federal catalytic converters meet EPA requirements. Federal Catalytic Converters are not legal for sale, installation or use with licensed vehicles in the state of California or any other states that have adopted California Air Resource Board (CARB) Emissions Requirements.

HERRINGBONE METALLIC – ACAT Performance's High Performance universal Herringbone Metallic catalytic converter for Ford F150 Pickup and SUV will deliver dyno-proven increases in both horsepower and torque. Benefits include increased miles per gallon, lower emissions, and more rugged durability in a smaller and lighter configuration.

CERAMIC MONOLITH – ACAT's Economical Ceramic universal catalytic converters for Ford Pickup and SUV have a rugged, durable body that is manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around ACAT's economical ceramic monolith.



UNIVERSAL CATALYTIC CONVERTER For HARLEY DAVIDSON

CATALYTIC CONVERTER PERFORMANCE

Harmful Emission (Products of Incomplete Combustion)		Less-Harmful Emissions (By-Products of Complete Combustion)		
HC	Hydrocarbon	Unburnt Fuel	H ₂ O	Water
CO	Carbon Monoxide	Partially Burned Fuel	CO ₂	Carbon Dioxide
NOx	Oxides of Nitrogen	Extreme Combustion Temperature	N ₂	Nitrogen

ACAT Motorcycle Universal Catalytic Converters Improve Exhaust Flow, Increase Power, Reduce Emissions.

ACAT manufactures **high-performance** motorcycle universal catalytic converters for aftermarket and OEM exhaust manufacturers of cruiser, sport bike and dirt bike motorcycles. Each universal converter uses ACAT's proprietary Metallic Herringbone substrate technology which flows more freely increasing horsepower and torque, improving fuel economy, reducing emissions and delivering OEM durability.

BETTER FUEL ECONOMY: Lower cells per square inch improves flow for increased fuel economy.

MORE EFFICIENT EMISSIONS: Passing through a turbulent maze; particulate removal improvements as high as 44% have been documented.

IMPROVED EXHAUST TONE: Proprietary herringbone technology means less noise and vibration while dampening harshness of tone.

INCREASED POWER AND TORQUE: Reduces back pressure for better performance and dyno-proven horsepower gains.

LIGHTWEIGHT DESIGN: Smaller and lighter designs.



UNIVERSAL CATALYTIC CONVERTER FITTING HARLEY DAVIDSON MOTORCYCLES

ACAT Performance's universal catalytic converter for Harley Davidson Motorcycles will deliver dyno-proven increases in both horsepower and torque. Benefits include increased miles per gallon, lower emissions, and more rugged durability in a smaller and lighter configuration.

Each universal catalytic converter for Harley Davidson Motorcycles surpasses all other universal catalytic converters on the market in performance, design, and longevity. ACAT's universal catalytic converter for Harley Davidson Motorcycles has a body that is manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around ACAT's Proprietary Herringbone Metallic Monolith. The ACAT Performance universal catalytic converter for Harley Davidson Motorcycles has an exterior shell that is cooled by -300°F to -400°F 3M™ Interam® 1600HTE Series Non-Intumescent Mat Mount Material.

Note: All Federal catalytic converters meet EPA requirements. Federal Catalytic Converters are not legal for sale, installation or use with licensed vehicles in the state of California or any other states that have adopted California Air Resource Board (CARB) Emissions Requirements.

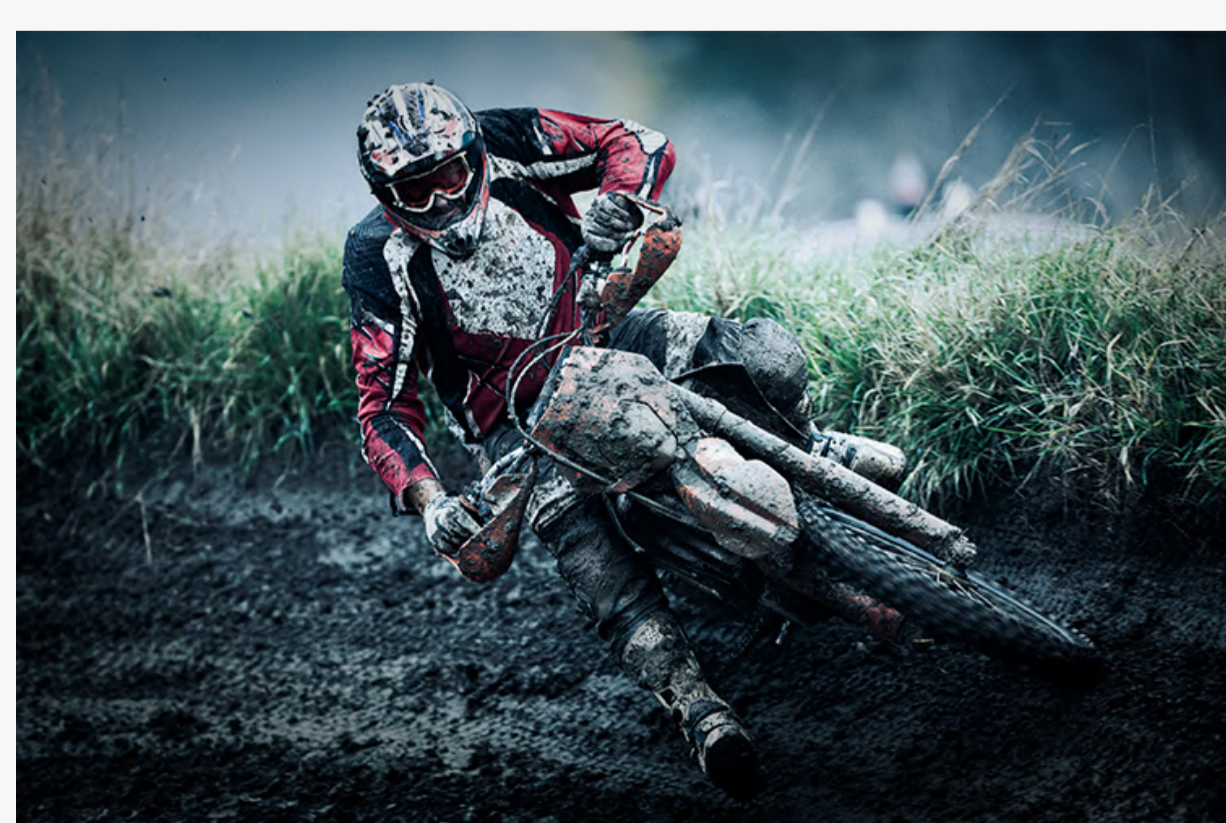


UNIVERSAL CATALYTIC CONVERTER SPORT BIKE APPLICATIONS

ACAT Performance's universal catalytic converter for Sport Bike Applications will deliver dyno-proven increases in both horsepower and torque. Benefits include increased miles per gallon, lower emissions, and more rugged durability in a smaller and lighter configuration.

Each universal catalytic converter for Sport Bike Applications surpasses all other universal catalytic converters on the market in performance, design, and longevity. ACAT's universal catalytic converter for Sport Bike Applications has a body manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around ACAT's Proprietary Herringbone Metallic Monolith. The ACAT Performance universal catalytic converter exterior shell for Sport Bike Applications are cooled by -300°F to -400°F 3M™ Interam® 1600HTE Series Non-Intumescent Mat Mount Material.

Note: All Federal catalytic converters meet EPA requirements. Federal Catalytic Converters are not legal for sale, installation or use with licensed vehicles in the state of California or any other states that have adopted California Air Resource Board (CARB) Emissions Requirements.



UNIVERSAL CATALYTIC CONVERTER DIRT BIKE APPLICATIONS

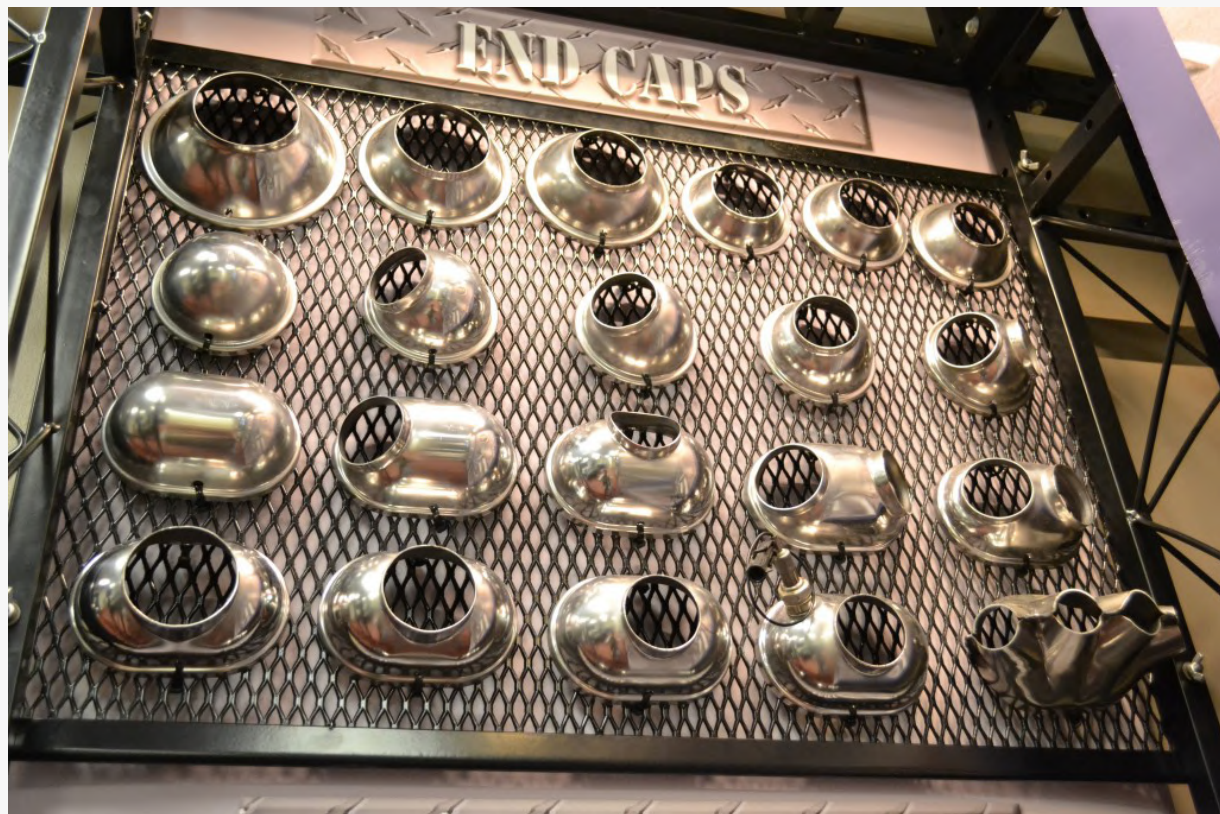
ACAT Performance's universal catalytic converter for Dirt Bike Applications will deliver dyno-proven increases in both horsepower and torque. Benefits include increased miles per gallon, lower emissions, and more rugged durability in a smaller and lighter configuration.

Each universal catalytic converter for Dirt Bike Applications surpasses all other universal catalytic converters on the market in performance, design, and longevity. ACAT's universal catalytic converter for Dirt Bike Applications has a body manufactured from a single CNC-formed laser-welded stainless steel tubular section that is spun around ACAT's Proprietary Herringbone Metallic Monolith. The ACAT Performance universal catalytic converter exterior shell for Dirt Bike Applications are cooled by -300°F to -400°F 3M™ Interam® 1600HTE Series Non-Intumescent Mat Mount Material.

Note: All Federal catalytic converters meet EPA requirements. Federal Catalytic Converters are not legal for sale, installation or use with licensed vehicles in the state of California or any other states that have adopted California Air Resource Board (CARB) Emissions Requirements.

ACAT END CAPS

Available in 4" and 5" round and narrow body type with ID openings from 2" to 3". Different configuration with single or double inlets with angles of 15-30 and 45 degrees.

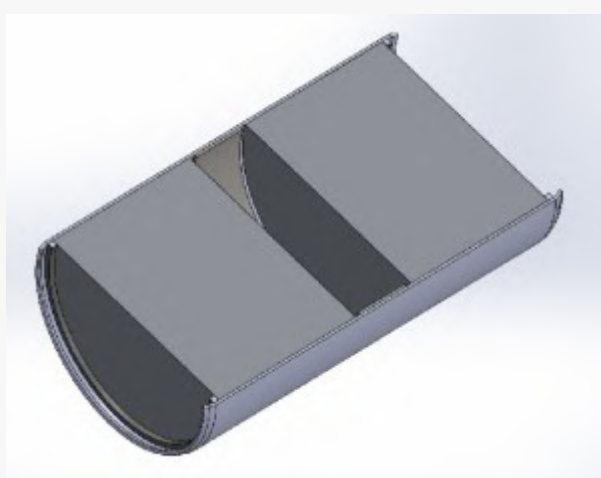
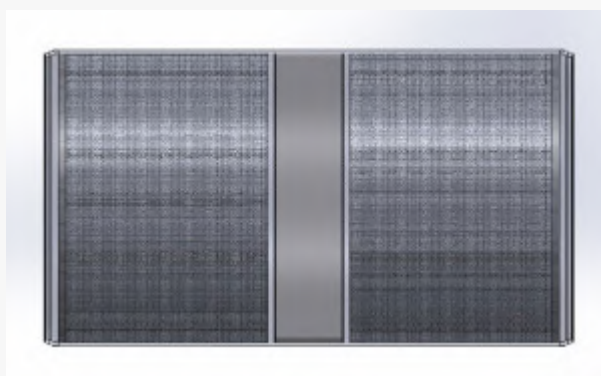
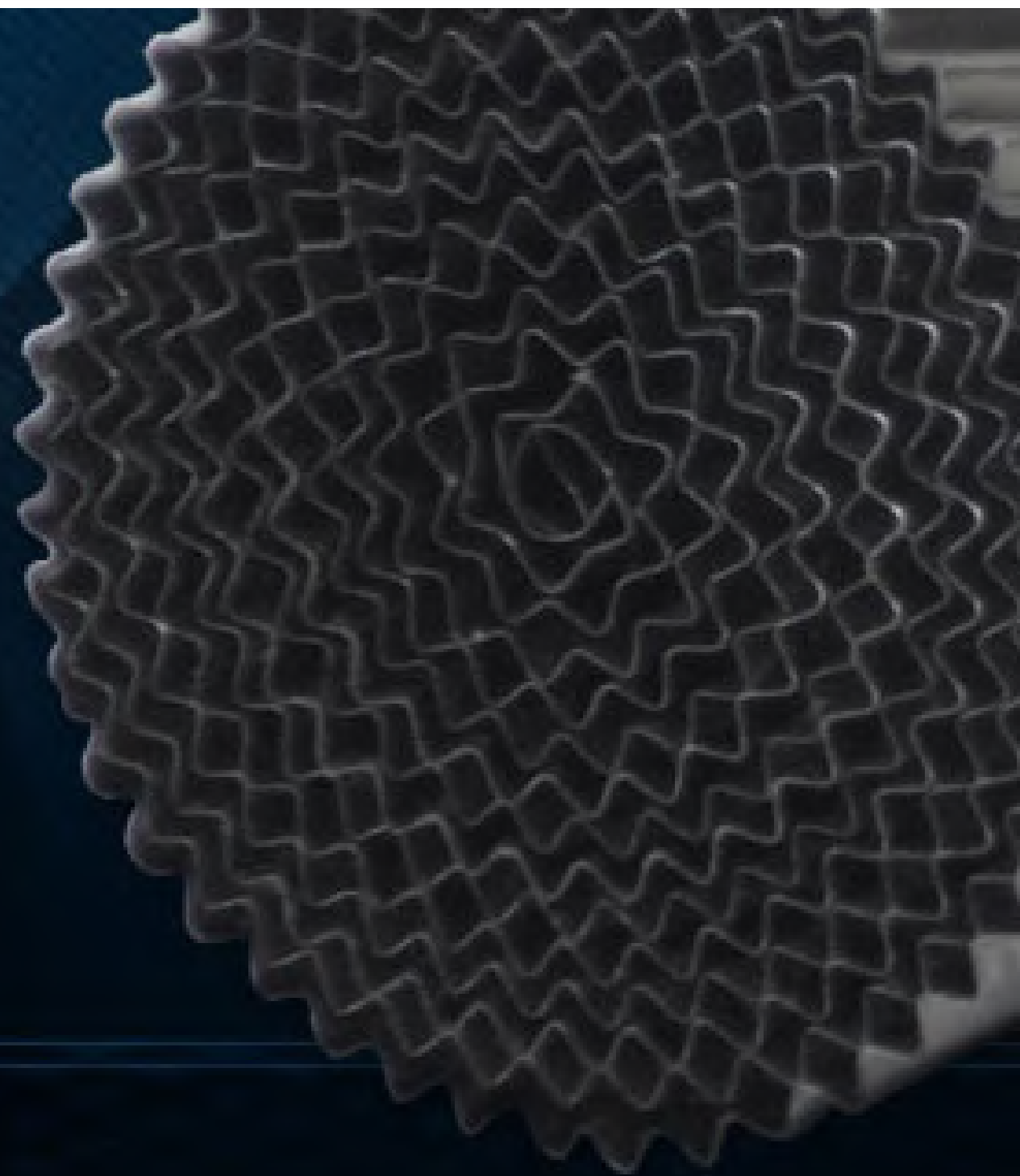


ACAT END CAPS

- Available in 4" and 5" round and narrow body type with ID openings from 2" to 3".
- Different configuration with single or double inlets with angles of 15-30 and 45 degrees.
- Used with our 4" round or narrow body stuffed tube converters, gives different inlet and outlet configurations for universal converters.

DIESEL MIXERS

For diesel "mixer" applications, ACAT's herringbone (HB) pattern, diameter size and flow length can be adjusted and tailored to meet urea conversion requirements.

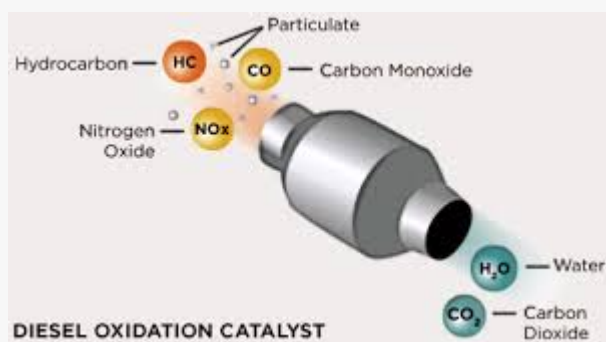


DIESEL MIXERS

- For diesel "mixer" applications, ACAT's herringbone (HB) pattern, diameter size and flow length can be adjusted and tailored to meet urea conversion requirements.
- ACAT HB Technology enables flexibility of designing a mixer to meet challenging packaging (volume, size and shape) requirements by allowing a choice of numerous HB patterns, different flow lengths and various diameter sizes.
- Standard HB patterns range from 70 HB to 450 HB.
 - An increase in HB pattern size will increase mixing as well as back pressure. A decrease in HB pattern will reduce mixing and back pressure.
- Standard flow lengths range from 57mm to 156mm.
 - Increasing flow length will increase mixing as well as back pressure. Decreasing flow length will reduce mixing and back pressure.
- Diameter of HB substrate can range from 1" to 36".
 - Increasing diameter will reduce back pressure.
- Urea and exhaust gases flowing from one chevron through the next creates full reversal within HB pattern. Gases passing through more chevrons will result in greater mixing.

DOCS – DIESEL OXIDATION CATALYSTS

Patented new technology from ACAT...



DOCS – DIESEL OXIDATION CATALYSTS

Patented new technology from ACAT significantly reduces the use of platinum group metals (PGMs) in DOCS.

As a result, OEMs, aftermarket and retrofit system manufacturers will benefit with lower costs on PGMs for vehicle catalysts on diesel engines while complying with stringent EPA emissions regulations.

ACAT's unique and proprietary mixed-metal oxide chemical structure takes advantage of low-cost metals to synergize the activity of a small amount of PGM.

As a result, it enables the diesel oxidation catalysts to perform at a level equal to – or better than – conventional DOCS that employ much higher loads of PGMs.

Initial tests confirm this ACAT breakthrough. They prove our new synergized-platinum group metals display a significant reduction in the amount of PGM need to manufacture DOCS for both light- and heavy-duty diesel engines in comparison to a competitor's OEM catalyst product.

TUBE BENDING

Tube Bending is the arm of our company that provides total system support for our Exhaust and Metallic divisions and their clients.



TUBE BENDING

Areas of Expertise

Our Tube Bending expertise is available to those who are planning to bring certain fabrication tasks in-house, or assign them to other supply chain partners.

Look to us for capabilities and services that include:

Tooling

- Automated welding cells
- Plasma cutting systems
- Tooling, fixtures and dies
- Tube-bending work cells
- High speed/tight tolerance machining

Tube Bending

- 1/2" to 3" diameter tubing
- 2" to 17" CLR bending
- Full range of finishing operations

Welding

- Robotic
- MIG
- TIG
- Plasma

WELDING ASSEMBLIES

You can rely on ACAT Global.



ACAT GLOBAL WELDING ASSEMBLIES

You can rely on ACAT Global for products including:

- Adapter pipes
- Brush guards
- End caps
- Fasteners
- Flex pipes/tubes
- Frames & chasses
- Grab handles
- Headrest tubes
- Heatshields
- Mufflers
- Operator protection systems
- Resonators