

# KSPG supplies components for five winners

## Ward's "10 Best Engines" award

For the 22nd time the American trade magazine Ward's presented its 10 Best Engines award at a ceremony held in Detroit following the press days at NAIAS (North American International Auto Show). It was the first time in the history of the awards that as many as three partly electrically powered drive units were among the top ten. Of the winners, five use components supplied by Germany's KSPG (a member of the Rheinmetall Group), with subsidiaries in the USA and Mexico. Its traditional brands include KS Kolbenschmidt and Pierburg.



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Among the prize-winners with new, efficient engine designs are the Volvo XC 90 and its T6 2-liter turbo engine with additional compressor charging. The engine's sophisticated main cooling system features a Pierburg coolant pump. Apart from this and for cooling functions during start-stop cycles, the vehicle has another Pierburg pump, a 15-Watt water recirculating unit. Other Pierburg products include electric bypass flaps, a divert-air valve, a turbocharger-regulating valve as well as an electropneumatic transducer and an electric throttle valve. For reasons of downsizing, Volvo will in future be confining its line-up to 4-cylinder engines with turbocharger, supplementary compressor supercharger or even with hybrid drive.

Six-cylinder units are nowadays increasingly replacing yesteryear's high-volume eight-cylinder engines. Backed by its

longstanding expertise in engine and waste-gas technology, KSPG is supporting this trend toward enhanced engine efficiency in different ways including variants with diesel drivelines.

Typifying this downsizing trend is the new six-cylinder 3.6-liter engine on the Cadillac ATS/Chevrolet Camaro. Pierburg's input: mechanical variable oil pump, an advanced tandem oil/vacuum pump, and an oil-control valve.

Pistons from KS Kolbenschmidt are inside the six-cylinder 3.5-liter engine of the Nissan Maxima. Another award winner is the Dodge Ram 1500 six-cylinder engine with 3 liters displacement. This sources its electric throttle valve from KSPG as does the 3.0-liter turbo engine 340i from BMW. The latter, which has a Pierburg divert-air valve, will be installed in numerous future BMW models.

### About the Ten Best Engine awards

Eight editors from the renowned US trade journal Ward's test the engines in everyday driving situations around Detroit. To be eligible for listing, engines must either be completely new or significantly overhauled, and available in the US market during the first quarter of the respective year. Among experts, the awards are regarded as benchmarks for the state of the art in automotive technology.

NAIAS, held in the car city of Detroit, is the first major auto show each year. One of its highlights is the announcement of Ward's 10 Best Engines.

# KSPG components in the new models



## Ford Mustang

Parts supplied by KSPG

- Electric recirculating air valve



## Renault Twingo

Parts supplied by KSPG

- Variable oil pump



## Opel Corsa

Parts supplied by KSPG

- Electric recirculating air valve
- Boost pressure control valve



## VW Gold Sportsvan

Parts supplied by KSPG

- Plain bearings
- Water circulating pump