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## **ALL-NEW HARLEY-DAVIDSON MILWAUKEE-EIGHT ENGINE POWERS ENHANCED TOURING MOTORCYCLE EXPERIENCE**

*Newest Harley Big Twin Delivers More Performance, Fuel Economy and Comfort*

MILWAUKEE (August 23, 2016) – The all-new Harley-Davidson® Milwaukee-Eight™ engine, ninth in the lineage of the company’s iconic Big Twin engines, delivers more power and an improved motorcycling experience for riders and passengers while retaining the iconic look, sound and feel of its predecessors. An all-new design, the Milwaukee-Eight engine offers quicker throttle response, more passing power, purer sound, better fuel economy, a smoother ride and more of the feeling riders want from a Harley-Davidson Touring motorcycle engine.

“The guiding principle behind the Milwaukee-Eight engine was our voice of customer research from every region of the world,” said Scott Miller, Harley-Davidson Vice-President of Styling and Product Development Strategy. “Riders asked us to create a new engine designed to enhance their motorcycle touring experience in every way. Those same voices also demanded that we stay true to our legacy and respect the defining elements of a Harley-Davidson V-Twin. It was a big challenge, but one we’ve met. With the Milwaukee-Eight, a new era of Harley-Davidson power, performance and innovation has been forged.”

New Milwaukee-Eight engines will power every 2017 Harley-Davidson Touring and Trike motorcycle model. Milwaukee-Eight engines will be offered in two displacements and three variations:

**Milwaukee-Eight 107** (107 CID, 1745cc) featuring precision oil-cooled cylinder heads for the Street Glide® Special, Road Glide Special®, Road King®/Road King® Classic and Freewheeler® models.

**Twin-Cooled™ Milwaukee-Eight 107** (107 CID, 1745cc) featuring liquid-cooled cylinder heads for the Ultra Limited/Ultra Limited Low, Road Glide® Ultra and Tri Glide® Ultra models.

**Twin-Cooled Milwaukee-Eight 114** (114 CID, 1870cc) featuring liquid-cooled cylinder heads for the CVO™ Limited and CVO™ Street Glide® models.

### **More Power**

Each Milwaukee-Eight engine produces up to 11 percent more torque than the engine it replaces

in Touring models (varies per model). In addition to increased displacement, the Milwaukee-Eight engine features a higher compression ratio and four-valve cylinder heads with 50 percent more intake and exhaust flow capacity. The valve train requires no adjustment as the design of the rocker arms enables valve lash to be set at the factory for life. Dual spark plugs for each cylinder contribute to more-efficient combustion. A single chain-driven camshaft is lighter, mechanically less complex and creates less friction and noise.

“The Milwaukee-Eight engine retains the classic Harley-Davidson 45-degree V-Twin design,” said Alex Bozmoski, Harley-Davidson Chief Powertrain Engineer, who led the development team. “It also retains the power characteristic that is the real legacy of the Harley-Davidson Big Twin: strong low-end torque with a broad, flat power curve through the mid-range that’s ideal for the Touring motorcycle rider.”

### **Quicker Acceleration**

The Milwaukee-Eight engine weighs the same as the engines it replaces, so all of its extra power contributes directly to improved acceleration performance.

- The Milwaukee-Eight 107 accelerates 11 percent quicker 0-60 mph, equal to a two to three bike length improvement, and 11 percent quicker from 60-80 mph in top gear, equal to a one to two bike length improvement, compared to the Twin Cam High Output 103.
- The Milwaukee-Eight 114 accelerates 8 percent quicker 0-60 and 12 percent quicker 60-80 than the Twin Cam 110™.

### **Improved Economy**

Efficiency gained in Milwaukee-Eight engine air flow and combustion, including the use of dual spark plugs per cylinder, delivers better fuel economy, depending on displacement and model, and a corresponding increase in range.

### **Heat Management**

The Milwaukee-Eight engine offers improved rider and passenger thermal comfort due to reduced heat absorption, increased heat rejection and a redesigned exhaust system. Each Milwaukee-Eight engine features a precision cooling strategy based on the specific demands of the motorcycle model, using a targeted flow of either oil or liquid coolant around the hottest areas of the cylinder heads. A new knock sensor for each cylinder enables more-precise timing control. The rear exhaust pipe is re-positioned and the exhaust catalyst is relocated to move heat away from the passenger. Idle speed is lowered from 1,000 rpm to 850 rpm.

### **Improved Fit**

A new, slimmer primary drive cover and the low-profile shape of the air cleaner cover provide improved rider legroom around the engine and an easier reach to the ground for many riders. All Milwaukee-Eight powered models are fitted with an Assist and Slip Clutch with improved

hydraulic actuation that reduces clutch lever effort by 7 percent.

### **Reduced Vibration**

The rubber-mounted Milwaukee-Eight engine features a single internal counter balancer that cancels 75 percent of primary vibration at idle for a more-refined feel and more-comfortable experience for rider and passengers while retaining the classic character of Harley® V-Twin engines.

### **Richer Exhaust Note**

Lighter valves, a single camshaft, optimized cover designs and improved driveline components eliminate mechanical powertrain noise. The engine intake and air cleaner are designed to reduce intake sound while ensuring maximum air flow. As a result, the new Milwaukee-Eight engine is mechanically quieter, enabling a richer exhaust tone, and meets all global noise and emissions standards while allowing the unmistakable rumble of its exhaust note to resonate.

### **Improved Charging**

The Milwaukee-Eight engine charging system delivers 50 percent more output to the battery at idle to better support the power demands of Touring riders, including accessory lighting, performance audio, and heated gear and other accessories.

### **New Engine Styling**

The Milwaukee-Eight engine features sleek, modern styling that respects the heritage of previous Harley-Davidson Big Twin engines.

“The Milwaukee-Eight engine is styled to project power,” said Brad Richards, Harley-Davidson Director of Styling. “I compare it to the back of a swimmer, lean in the waist but broad and muscular in the shoulders.”

“The rocker covers look like skin stretched taut over muscle, like the rocker arms are about to burst out of the engine,” said Richards. “For the first time since the Knucklehead, the rocker covers reflect the action going on below. And they are massive. When you sit on the bike you can look down and see more of this engine.”

To experience the transformation of the 2017 Harley-Davidson® Touring models for yourself, visit [www.h-d.com/discovermore](http://www.h-d.com/discovermore) to schedule a test ride.

### **About Harley-Davidson Motor Company**

Since 1903, Harley-Davidson Motor Company has fulfilled dreams of personal freedom with cruiser, touring and custom motorcycles, riding experiences and events, and a complete line of

Harley-Davidson motorcycle parts, accessories, general merchandise, riding gear and apparel.  
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