

**NOW
IN OUR
27th
YEAR**

AAMD™

AFTERMARKET MOTO DESIGN

THE LEADING BUSINESS MAGAZINE FOR THE INTERNATIONAL CUSTOM MOTORCYCLE AND PARTS INDUSTRY

Model Year 2020 - Harley-Davidson New Models and Technology

SEPT 2019
ISSUE #242

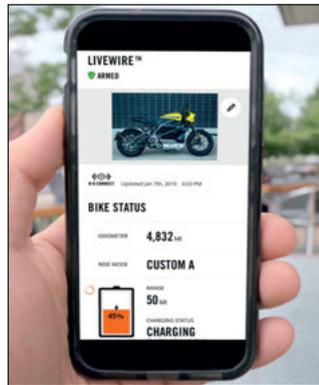
The headline news from Harley's much anticipated MY 2020 announcement (August 20, 2019) is the long awaited debut of the much hyped LiveWire and what will be a welcome comeback for the "legendary" Low Rider S.

"New models, new technologies and more customer choices are featured in the expansive line-up of Harley-Davidson motorcycles for 2020," the company says. "The new Harley-Davidson Low Rider S model brings aggressive style and all-out performance to a 2020 Harley-Davidson model line-up that also includes the all-electric LiveWire model and the new CVO Tri Glide - the ultimate three-wheel motorcycle.

"Also new for 2020 is the H-D Connect service, a subscription-based cellular connectivity service for select Harley-Davidson motorcycles, and the Reflex Defensive Rider Systems (RDRS), a new collection of rider-control technologies for select models that includes traction control and an advanced Antilock Braking System (ABS).

"The new models and advanced

technologies are components of the 'More Roads to Harley-Davidson' plan to accelerate building the next generation of riders through new products in additional motorcycle segments, broader access and a commitment to strengthen dealers globally."



Harley-Davidson Chief Marketing Officer Heather Malenshek was quoted as saying that "Harley-Davidson offers riders a host of new models, gear and accessories for 2020 as we leverage our unmatched ability to blend style, performance and technology in products designed to

elevate the motorcycling experience. This year Harley-Davidson offers more choices for more riders than ever before."

Though it may no longer feel all that new to those who have witnessed its five-year gestation period, the LiveWire model is an "all-new, all-electric motorcycle, an exhilarating and evocative new model designed to offer the rider a high-performance motorcycling experience infused with a new level of technology, and the premium look and feel of a Harley-Davidson product.

"Propelled by the immediate torque of the H-D Revelation all-electric powertrain, the LiveWire motorcycle is capable of rapid acceleration with just a twist of the throttle - no clutching or gear shifting required. With up to 146 miles of range" (city) or 95 miles (combined), based on the SAE J2982 Riding Range Test Procedure and expected performance of a fully charged battery when operated under specified conditions.

With "performance optimized for the urban street rider, the LiveWire model is the first in a broad portfolio of

Continues on page 12 >>>

COMMENT BY EDITOR-IN-CHIEF ROBIN BRADLEY

H-D MY 2020 -
MORE IN HOPE
THAN EXPECTATION?

ULTIMA MACHINE SHOP SERVICES



After five years in the making, drum roll please ... the Harley-Davidson LiveWire electric motorcycle.

Grand National Slip-On Muffler -for 2019 Indian® FTR 1200®-



Grand National 2:2 High Exhaust -for 2019 Indian® FTR 1200®-



PROVEN PERFORMANCE

Made in the USA • sscycle.com • @sscycle

US SLIP-ON: QUALIFIED MANUFACTURER DECLARED U.S. 50-STATE LEGAL EMISSIONS REPLACEMENT PART ON ALL MY 2019 FTR1200 MODELS

EU SLIP-ON: EU COMPLIANT PER 11033 G EC-TYPE APPROVAL FOR NON-ORIGINAL MOTORCYCLE NOISE ABATEMENT DEVICE

2:2 EXHAUST: EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO# K-010-8 FOR ALL 2019 INDIAN® FTR 1200 MODELS



EDITOR-IN-CHIEF

ROBIN BRADLEY
robin@dealer-world.com

PUBLISHER

SONJA WALLACE
sonja@dealer-world.com

GENERAL MANAGER

SARA VINEY
sara@dealer-world.com

DESIGN & PRODUCTION DIRECTOR

BEN OAG
ben@dealer-world.com

AMD WORLD CHAMPIONSHIP DIRECTOR

NEIL BLABER
neil@dealer-world.com

PHOTOGRAPHERS

ONNO WIERINGA
MADNESS PHOTOGRAPHY, NL
www.madnessphotography.eu

FRANK SANDER
THUNDER MEDIA, DE
www.thunder-media-service.de

TOLL FREE... FROM USA/ CANADA:

TEL: 1-866 849 5704

FAX: 1-866 521 0099

If for any reason you can't connect via our toll free numbers then dial
TEL: 01144 1892 511516
Fax: 01144 1892 511517

5, Rendlesham Mews,
Rendlesham, Woodbridge,
Suffolk IP12 2SZ
United Kingdom

TEL: 0044 (0)1892 511516
FAX: 0044 (0)1892 511517

DISCLAIMERS

No part of AMD may be reproduced or used in any way without permission. The views contained in AMD are not necessarily the views of the publishers; the views of the publishers are not necessarily the views of any third parties. Every effort is made to ensure that all material included is as accurate as possible, however, neither the publishers or any third parties can be held responsible for any erroneous statements, facts, figures or just plain silly or honest mistakes or inaccuracies, howsoever caused. All trademarks, brand names and other key words are used purely for descriptive purposes. No approval, endorsement of, or involvement in the contents of AMD is implied by the use of these or any other words, names or marks associated with all or any companies. All trademarks are openly acknowledged by AMD and by any third parties included in AMD. All AMD editorial content is just exactly that, independently sourced, compiled and written editorial content for which no financial or other beneficial transaction or other kind of relationship, contractual or otherwise, has been entered into. No consequential losses or any other liabilities are accepted arising from content of any kind in AMD, howsoever caused.

'World Championship of Custom Bike Building' is a registered trademark of Robin A. Bradley, Dealer-World.com

POST MASTER

AMD (ISSN 1465-7627) is published monthly by Dealer-World.com, 5, Rendlesham Mews, Rendlesham, Woodbridge, Suffolk, IP12 2SZ, United Kingdom. Subscription price \$200 per year. Postmaster: Please send address changes to: AMD, Dealer-World.com, 5, Rendlesham Mews, Rendlesham, Woodbridge, Suffolk, IP12 2SZ, United Kingdom or e-mail to sara@dealer-world.com

PRINT BY WARNERS MIDLANDS
BOURNE, LINCOLNSHIRE, GB

ISSN 1465-7627



Comment - More In Hope Than Expectation? 4

Robin Bradley on Harley's MY 2020 dependency on an entirely unknown and unproven market for \$30,000 electric motorcycles in America.



AFT presented by Vance & Hines 8-10

A four race round-up that sees Indian Motorcycle Racing securing its third consecutive manufacturer's championship at the Peoria TT.



Ultima Products 32-33

Brian Brace on the Ultima Products machine shop and the work that goes into reconditioning customer engines for its dealers.

PROGUIDE: The new, the best and the must-haves 34-56

DOCK66 MOTORCYCLE PARTS p.34

ZODIAC ORIGINAL PARTS & ACCESSORIES p.37

DENALI ELECTRONICS p.38

HYPERPRO Forksprings p.44

V-Factor p.40

Custom Dynamics p.40

rizoma p.48

DRAG Specialties p.44

CUSTOM CHROME EUROPE p.46

2019/2020 9TH EDITION

IN PRINT ONLINE
ON YOUR OWN DEVICE

AVAILABLE ONLINE

Available for platform optimized online reference or searchable PDF download. Additional print copies are available on request from the AMD office in the UK.
www.ammdir.com

H-D MY 2020 - More in Hope than Expectation?

So, after five years of being pregnant, Harley-Davidson has finally given birth to the LiveWire and the first of its 'More Roads' new products have come to market.

Right now, the first dealer deliveries have been made (actually some dealers got demonstrators up to a couple of months earlier than the MY 2020 new model announcement on August 20th, the first day of this year's annual dealer convention), and some (hopefully) satisfied customers will already be adjusting to "life in the quiet lane."

This time next year the initial response to the LiveWire will have passed and there'll either be wait lists, satisfied riders, dealers and investors, or not, as the next stages in Harley's strategic plan start to hit showroom floors - either the 975 cc streetfighter and custom cruiser style 'middleweights' (if 975 cc can truly be regarded as a middleweight displacement - internationally it isn't) or Harley's first foray into the BMW territory that are Adventure Tourers with the 'Pan America'.

The press has been very complimentary about the LiveWire, but then they haven't been asked to shell out the thick end of \$30k for a bike whose primary competitors are at best two thirds of that price and which, almost universally, have way better charging ranges and times.

That it looks the part and that it is 'brand faithful' isn't in dispute - LiveWire proudly wears the Harley styling DNA and, initially at least, the price will get the first few thousand owners bragging rights commensurate with the badge.

Whether or not it will get them to their nearest dealerships or places of work without abruptly stopping and requiring considerable charging time is another matter.

My primary worry still revolves around price, of course, and the size of the available market - as basically there isn't anything to speak of yet - not even in Europe, where the market is probably at least a decade ahead in terms of acceptance of the desirability and inevitability of alternative powered platforms.

The latest available market statistics to come out of ACEM - the Brussels based international motorcycle industry trade association that acts as the "headmaster's study" for all of Europe's national trade associations and Europe's motorcycle manufacturers and import subsidiaries - do not make for pretty reading.

In a market (the currently still 28 EU member states) where the demand for conventionally powered (ICE/Internal Combustion Engine only) motorcycles (theoretically) grew by +8.2% for the first six months of 2019 (compared to the first six months of 2018) to 612,690 units, the sales of electric motorcycles only amounted to 5,812 units.

Sure, the growth rate in percentage terms is impressive at +82.6%, but on such low volumes that is pretty meaningless - it hardly yet constitutes a trend.

On top of the motorcycles there were also 28,577 electric powered mopeds sold in the first six months of 2019 (an equally impressive +73.6%), but if Europe has only

been worth in the region of 35,000 electrically powered PTWs (Powered Two-Wheelers) in the peak selling months of 2019 so far, then how small is the \$30k opportunity for Harley on either side of the Atlantic?

Of course, everyone wishes them well with LiveWire, we've all got skin in this game one way or another, and maybe I will be eating my words a year from now.

Maybe, just maybe, the cache of the brand, the novelty value, the power of being the first of the ICE majors to venture into these waters in the U.S market will create demand for all where not much existed before. I do hope so. Alternatively, they may go the way of many 19th century American pioneers - face down in the dirt with arrows in their back as others with better products, better timing and better pricing race past the LiveWire corpse.

Despite having the tech to make a play for the E-bike market, five years ago Polaris

CEO Scott Wine state that he found it difficult to see how any ICE motorcycle manufacturer could make money from electrification at that stage, and not enough has yet changed in the time since to make a different call.

I'm an eternal optimist, so for now I am saying a great big fat "hurrah!" and looking forward to being 100 percent wrong. I just wish Harley had adopted plans like

“ I will happily eat my words ”

this, all the 'More Roads' plans, some five years earlier. If LiveWire isn't the silver bullet they need, then they will remain in serious danger of running out of road.

Interestingly, the share price, which had again been plumbing new depths in contemporary terms throughout most of July and August, barely twitched in response to the announcement. Usually the new MY announcement at least results in a short-term bounce, even if the reality of the hedge bets quickly drags it back to reality. Not this year though. No heartbeat at all. Zip. Zero. Nada.

At 09:30 on the day of the announcement HOG was trading at around \$32.34; by 15:45 it was down at \$31.86, having been as low as \$31.70.

Elsewhere in the model range announcement the increasing pace at which Harley is embracing and deploying technology is to be welcomed. That said, even here they are playing catch-up with some of the initiatives that Indian has had in play for a couple of years and that many other manufacturers, especially the Europeans, have had on their models or on the drawing board for anything up to a decade. Do manufacturers still have drawing boards?

Robin Bradley
Co-owner/Editor-in-Chief
robin@dealer-world.com



ENHANCE YOUR JOURNEY... BITUBO SUSPENSIONS
EXPERTS CONSIDER BITUBO MORE THAN A REPLACEMENT ITEM,
WHETHER YOUR BIKE IS NEW OR USED, BITUBO SUSPENSION SYSTEMS
IMPROVE YOUR RIDE, RELIABILITY AND SAFETY.

Now available in the USA at Brock's Performance
www.BrocksPerformance.com

www.bitubo.com



**ARLEN
NESS**



THE ALL-NEW ARLEN NESS FORGED WHEEL LINE

We designed and tooled up our own forgings. Added world class machining with world class chrome and anodized finishes. Developed a cartridge type hub design that makes our wheels more concentric than anything else in the v-twin aftermarket. While the rest of the industry mounts an outdated log style hub, we changed the rules by meticulously sculpting every detail of our cartridge hubs and our industry first hub covers to finish the design all the way to the bearing. Check them out at www.arlenness.com.



[instagram.com/arlennessmotorcycles](https://www.instagram.com/arlennessmotorcycles)



www.facebook.com/ArlenNess

**ARLEN
NESS**
WWW.ARLENNESS.COM

**VANCE
HINES**

**Stainless 2-into-1 Upsweep;
now available for Dyna
and #NotYourDyna.**



NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLES



STAINLESS 2-INTO-1 UPSWEEP | Fits Forward & Mid Control Models

@VANCEANDHINES
FOLLOW US ON SOCIAL MEDIA

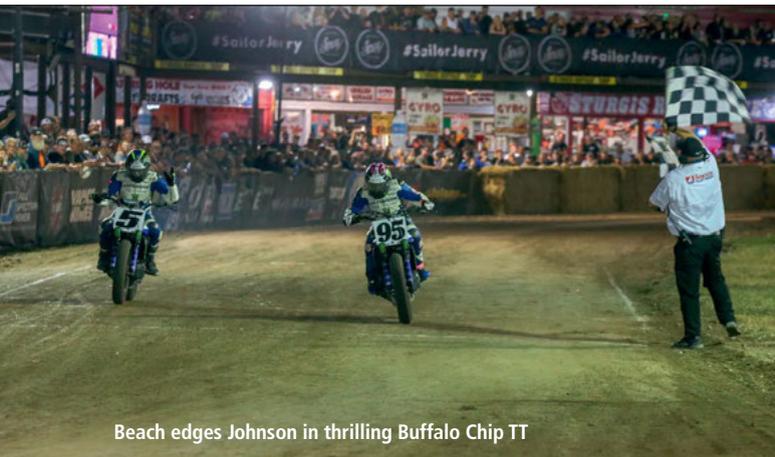


LATEST

Photos: Scott Hunter/American Flat Track

Wins for JD Beach, Jared Mees and a Win Double for Briar Bauman

Buffalo Chip TT



Beach edges Johnson in thrilling Buffalo Chip TT

At the **Buffalo Chip TT** (August 4), JD Beach (No. 95 Estenson Racing Yamaha MT-07 DT) blasted past teammate Jake Johnson (No. 5 Estenson Racing Yamaha MT-07 DT) just a few feet short of the checkered flag to steal away a most improbable victory in a wild AFT Twins presented by Vance & Hines showdown at the Buffalo Chip TT presented by Indian Motorcycle in Sturgis, SD.

Jared Mees (No. 1 Indian Motorcycle/Progressive Insurance FTR750) was third, Bronson Bauman (No. 37 Indian Motorcycle/Progressive Insurance FTR750) fourth and Jarod Vanderkooi (No. 20 Harley-Davidson Factory FlatTrack Team XG750R Rev X) fifth.

In the AFT Singles, for the second consecutive year, Ryan Sipes (No. 264 Red Bull/Leatt/KTM 450 SX-F) put on a masterclass of all-round riding ability at the Buffalo Chip TT with a convincing victory demonstrating the skill sets that a TT demands and that also made him a Supercross race winner and America's first ever ISDE overall winner.

AFT Singles points leader Dalton Gauthier (No. 122 D&D Cycles/Gobert Smash Husqvarna FC450) finished second, with defending champ Dan Bromley (No. 1 Red Bull KTM Factory Racing 450 SX-F) third.

Black Hills Half-Mile

At the **Black Hills Half-Mile** two days later (Rapid City, SD) Briar Bauman (No. 14 Indian Motorcycle/Progressive Insurance FTR750) demonstrated the resiliency of a champion with a rebound victory. Two rounds earlier, the AFT Twins presented by Vance & Hines title leader bounced back from a season's worst 16th-place result at the Lima, Ohio Half-Mile with a blowout win in the New York Short Track. The factory Indian ace replicated that trick at Black Hills Speedway - his win following up another 16th-place disappointment at the Buffalo Chip TT.

Bauman led the way practically throughout the once red-flagged and restarted Main, despite being kept honest by Jeffrey Carver Jr. (No. 23 Roof Systems of Dallas/Indian of Metro Milwaukee FTR750), who was second, and brother Bronson Bauman (No. 37 Indian Motorcycle/Progressive Insurance FTR750), who scored third place. Brandon Robinson (No. 44 Kennedy Racing/Armbruster Racing Indian FTR750) was fourth, with former WorldSBK pilot PJ Jacobsen



Bauman bounces back with Black Hills Half-Mile triumph

(No. 199 Coolbeth-Nila Racing Indian FTR750) fifth.

In the AFT Singles, Chad Cose (No. 49 Parkinson Bros Racing/Rod Lake Suzuki RMZ 450) scored his first ever Singles win weeks after claiming his first-career AFT win in the Production Twins class following a decade of trying; with the ever aggressive Shayna Texter (No. 52 Red Bull KTM Factory Racing SX-F 450) second and holeshotter Morgen Mischler (No. 69 Waters Autobody Racing/D&D Powersports KTM 450 SX-F) third. The 15-lap AFT Production Twins class win was taken by Ryan Varnes (No. 68 Varnes Racing/RoyBuilt Kawasaki Ninja 650), with J.R. Addison (No. 24 Smith/Addison Racing Kawasaki Ninja 650) second and James Rispoli (No. 71 Black Hills Harley-Davidson XG750R Rev X) third.

Sacramento Mile

Just four days later, the third race in six days saw Mees strike back to win the rearranged **Sacramento Mile**. Defending Sacramento Mile Champion Jared Mees (No. 1 Indian Motorcycle/Progressive Insurance FTR750) defeated title rival Briar Bauman (No. 14 Indian Motorcycle/Progressive Insurance FTR750) in a competitive AFT Twins presented by Vance & Hines 25-lap Main Event on August 10.

The 0.151-second margin win saw Mees up his career record to 44 premier-class wins. That moves him out of a tie with Jay Springsteen and



QUALITY IGNITION PRODUCTS FROM A TRUSTED NAME



Drag Specialties has the plugs, wires and coils you need for a complete ignition tune-up – Pans to M-Eight. Whether a major rebuild or a minor repair, we offer the best selection of dependable V-Twin parts.

Contact your Drag Specialties rep for more information.

DRAG
Specialties

dragspecialties.com | #SINCE1968

Designed for all
the power you
can throw
at it.



2" BELT DRIVE LATE MODEL

'06-Present Dyna, '07-Present © Softail©

\$769.99

#58-960
Polished



\$769.99

#58-990
Black

2" BAGGER BELT DRIVE

For FLT, FLH & FXR models
(Evo or Twin Cam©) '90-'06

\$959.99

#58-853
Polished



\$949.99

#58-958
Black

2" BELT DRIVE

For Evo & Twin Cam© Softail©
'90-'06

\$599.99

#58-850
Polished



\$599.99

#58-941
Black

Call or go online for pricing on full line of 3.35" Ultima Belt Drives



Distributed
Exclusively By

Prices
Subject
To Change

U.S.A. Toll Free: 1-800-325-3914

Local & International: 636-931-3200

Buy Online at Midwest Dealer Portal:

www.MidwestmcDealerExpress.com



**American
FLAT TRACK**

into sole possession of third place on the all-time AFT Twins victory order.

Third place went to 2015 AFT Singles champ Davis Fisher (No. 67 Bob Lanphere Beaverton Motorcycles/Dick Wall 60 Indian FTR750), with Bronson Bauman (No. 37 Indian Motorcycle/Progressive Insurance FTR750) fourth and seven-time Sacramento Mile winner Bryan Smith (No. 4 Crosley Brands/Howerton Motorsports Kawasaki Ninja 650) fifth.

In the 15-lap Singles, superstar Shayna Texter (No. 52 Red Bull KTM Factory Racing SX-F 450) gave Red Bull/KTM its first Mile win in Singles, with Mikey Rush (No. 15 RMR Honda/Red Riders Rewards Honda CRF450R) second and Tristan Avery (No. 16 Waters Autobody Racing/Staci Howell Honda CRF450R) third. Texter now boasts eight Mile wins among her class-leading 17 career victories.

In the AFT Production Twins class, Dalton Gauthier (No. 122 Black Hills Harley-Davidson XG750R Rev X) made history in Saturday night's AFT Production Twins class, guiding Harley-Davidson's production-based XG750R race bike to its maiden AFT Main Event victory. J.R. Addison (No. 24 Smith/Addison Racing Kawasaki Ninja 650) was second; Kolby Carlile (No. 136 Estenson Racing Yamaha MT-07) third.

FTR750) took another big step toward claiming the 2019 AFT Twins presented by Vance & Hines championship with a 2.967 second win from his brother Bronson Bauman (No. 37 Indian Motorcycle/Progressive Insurance FTR750).

The victory was Bauman's fourth triumph of the '19 American Flat Track season and the first time anyone other than Henry Wiles had won at Peoria since 2003.

JD Beach (No. 95 Estenson Racing Yamaha MT-07 DT) was third, ahead of Robert Pearson (No. 27 R/J Performance/Hite Trucking Indian FTR750) fourth and defending champion Jared Mees (No. 1 Indian Motorcycle/Progressive Insurance FTR750) fifth.

In the singles, 16 year old phenomenon Dallas Daniels (No. 163 Estenson Racing Yamaha YZ450F) earned his maiden AFT victory in the same season he also claimed his first-career MotoAmerica victory, with reigning class champion Dan Bromley (No. 1 Red Bull KTM Factory Racing 450 SX-F) second, and three-times Peoria TT winner Jesse Janisch (No. 132 Roof Systems Dallas TX/Öhlins Yamaha YZ450F) third.

The series will have stayed in Illinois for the rearranged Springfield Mile I on August 31 and the as-originally-scheduled Springfield Mile II the next day, September 1, before wrapping up in September with the Williams Grove Half-Mile (Mechanicsburg, PA., September 7), the Minnesota Mile (Minneapolis, September 21) and the final round, the Meadowlands Mile, East Rutherford, NJ, September 28.

www.americanflattrack.com

Peoria TT

In a 'Battle of the Brothers' at the 73rd Peoria TT on August 17, Briar Bauman (No. 14 Indian Motorcycle/Progressive Insurance



HardDrive

AMERICAN V-TWIN PRODUCTS



200+ BRANDS & WAREHOUSES
1000s OF AMERICAN V-TWIN PRODUCTS

SAWICKI
SPEED
SHOP



firebrand



DISTRIBUTED BY
HardDrive
AMERICAN V-TWIN PRODUCTS

IN ASSOCIATION WITH
WPS

Visit HDTWIN.COM to Find Your Local HardDrive Dealer.



NEW TOURING LINE-UP



SPORTSTER MODELS

<<< Continued from cover
 electric two-wheelers designed to establish Harley-Davidson as the leader in the electrification of motorcycles. The H-D Connect service introduces "subscription-based cellular connectivity to select Harley-Davidson motorcycles to keep riders connected to their motorcycle through their smart phone using the latest version of the

Harley-Davidson App" (not available in all markets). The H-D Connect service "allows owners to connect remotely to their motorcycle and view key vehicle health information. It also provides the owner with the reassurance of being able to remotely monitor their motorcycle's security, including tamper alerts on the Harley-Davidson App and stolen-vehicle assistance.

The Reflex Defensive Rider Systems (RDRS) is a new collection of technology designed to "match motorcycle performance to available traction during acceleration, deceleration and braking, utilizing the latest chassis control, electronic brake control and powertrain technology. The RDRS features are standard on the 2020 LiveWire, Trike and CVO models, and optional on all 2020 Touring

models in the U.S." (except Electra Glide Standard models). The Reflex Brembo electronic, linked Antilock Braking System (ABS), that was previously optional on some Touring models, is now standard on all 2020 Touring motorcycles. ABS is designed to prevent the wheels from locking under braking and helps the rider maintain control when braking in a straight line.



STREET MODELS

SOFTAIL MODELS



100% NEW 100% ZODIAC

www.zodiac.nl



TORX BRAD HELMETS

art. no. 780770

E-approved motocross inspired helmets.



SPEEDFREAK STAINLESS STEEL RISERS

art. no. 782684

Polished or black.



Vity's
DESIGN



VITY'S DESIGN VELOCITY STACK

art. no. 780360

Sporty and elegant design that suits with any bike.



VITY'S DESIGN FORWARD CONTROLS FOR SOFTAIL

art. no. 780493

Billet aluminum with foldable footrests.



MILWAUKEE EIGHT THROTTLE SERVO COVER

art. no. 780314

Hides the throttle servo motor.

VITY'S DESIGN FLOORBOARDS

art. no. 780444

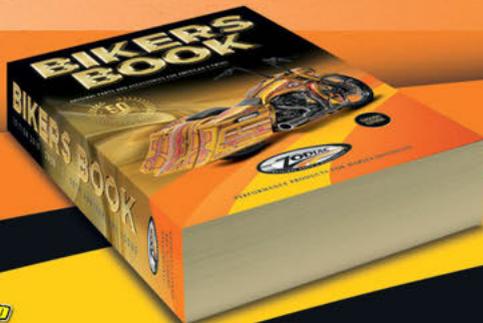
Feature 18 Diamond style inserts for maximum traction.



THE 50TH ANNIVERSARY ZODIAC BIKERS BOOK 2019

Order it at sales@zodiac.nl

Available in English, German, French, Italian and Spanish.



FOR ALL HARLEY'S
AND AMERICAN V-TWINS
WE RECOMMEND

All Zodiac products are available through our dealers.
Find them at www.zodiac.nl/dealers



PERFORMANCE PRODUCTS FOR HARLEY-DAVIDSON

PERFECT FITMENT | WIDE PRODUCT RANGE | FAST DELIVERY | QUALITY & EXCELLENCE | NO NONSENSE WARRANTY

NEWS BRIEFS



Described as the largest motoring garden party in the world, Harley gave the LiveWire a run up the 1.16 miles of the hill climb at the 25th annual Goodwood Festival of Speed in July. Fresh from celebrating his 2019 'Battle of the Kings' UK custom competition (his third win,) master custom bike builder and Hooligan Racing flat track series racer Charlie Stockwell of Warr's H-D (London) fame got to give the LiveWire its first run.

Polaris will pay a regular quarterly \$0.61 per share cash dividend on September 16, 2019 to shareholders of record at the close of business on September 3, 2019.



Now in its third year at the X Games, Harley-Davidson Hooligan Racing reached a watershed moment with its first year as an officially medaled X Games event and live broadcast on ABC. Designed to make flat track racing accessible to amateurs, an initial field of some 120 riders was narrowed to 48 who made their way to Minneapolis for their chance at Gold. "In front of an international audience, and a crowd of screaming fans, Daniel Mischler took first place on a modified Sportster."

Italian motorcycle registrations were +12.27% in July at 11,516 units and +8.78% January to July 2019 at 74,577 units. Scooters were an additional +6.36% YTD at 93,776 units. The top selling motorcycle in Italy YTD was the BMW R 1250 GS (3,326 units), followed by Honda's CRF1000 Africa Twin, the Benelli TRK 502/X and Yamaha's Tracer 900. Honda is the top dog Scooter brand with its Italian made SH125/150/300 series - some 19,000 sold YTD.

LiveWire - Harley's quiet future?

The LiveWire motorcycle will be available in 2019 through select authorized Harley-Davidson dealerships in the United States, Canada and most European countries where Harley-Davidson conducts business, with expanding global availability planned for 2020 through 2021. And the price? As previously stated by Harley, they are pitching in at a baseline starting MSRP of \$29,799.00.

Performance: 0 to 60 mph (0 to 100 kph) in 3.0 seconds and 60 to 80 mph (100 to 129 kph) in 1.9 seconds. Because maximum torque is always on tap, roll-on acceleration for passing from any speed is outstanding."

Twist-And-Go: Electric power requires no clutch and no gear shifting, greatly simplifying operation for new riders. All riders will also appreciate the braking effect of the power regeneration mode as it adds charge to the battery, especially in urban traffic that often requires a lot of slow-rolling and stop-and-go riding.

Minimal NVH: The H-D Revelation electric powertrain produces minimal vibration, very little heat and minimal noise, all of which enhance rider comfort. When the rider activates the LiveWire motorcycle powertrain, the electric motor will produce a subtle pulsing of torque, a heartbeat sensation designed to let the rider know the bike has come to life and is ready to ride. The pulsing ceases when the motorcycle begins to move and resumes when the motorcycle comes to a stop.

Ease of Maintenance: The LiveWire motorcycle is convenient to own because many of the routine maintenance items required of a motorcycle powered by an internal combustion engine are eliminated - there's no engine oil to change, and no spark plugs, air filter or primary drive to service.

Battery: The high-voltage battery has a five-year, unlimited-mileage warranty. It provides 146 miles (235 km) of city range or 95 miles (152 km) of combined stop-and-go and highway range as measured using the MIC City and MIC Combined tests (riding range estimates provided following SAE J2982 Riding Range Test Procedure and are based on expected performance of a fully-charged battery when operated under specified conditions). Actual range will vary depending on riding habits, ambient weather and equipment conditions, but is 98 miles (158 km) using World Motorcycle Test Cycle (WMTC - per EEC 134/2014 Annex VII Appendix 3.3). DC Fast Charge (DCFC)



technology provides a 0-80 percent of battery charge in 40 minutes or 0-100 percent charge in 60 minutes.

Handling and Control: The center of gravity has been optimized to enhance traction, braking and cornering performance. A lightweight cast aluminum frame is extremely rigid and contributes to the precise, responsive handling that makes the LiveWire model exciting to ride in any situation. Premium high-performance SHOWA BFRC (Balanced Free Rear Cushion-lite) mono-shock rear suspension is fully adjustable and designed to deliver a comfortable ride and precise handling. Premium SHOWA SFF-BP (Separate Function front Fork-Big Piston) front suspension matches the performance and adjustability of the rear shock and delivers exceptional low-speed damping control - ideal for composed control in typical urban riding conditions.

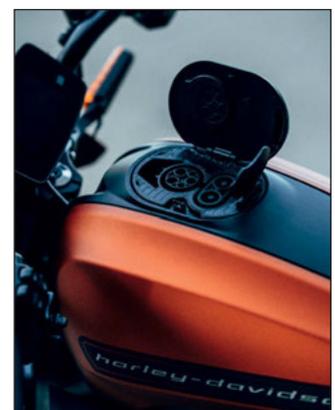
Brembo Monoblock front brake calipers grip dual 300 mm diameter rotors and deliver outstanding power with a crisp feel for confident braking performance. Premium co-branded H-D/Michelin Scorchers Sport tires (180 mm rear and 120 mm front widths) are designed specifically to enhance the handling performance of the LiveWire model.

Technology: The LiveWire motorcycle is equipped with a full suite of electronic rider aids and interfaces for a completely connected experience. The Reflex Defensive Rider Systems (RDRS) utilize Cornering Enhanced Anti-Lock Braking System (C-ABS), Cornering Enhanced Traction Control System (C-TCS) and Drag-Torque Slip Control System (DSCS) to give the rider more confidence and control in less-than-ideal situations.

A 4.3-inch color TFT touchscreen (thin-film-transistor, a type of liquid-crystal display noted for high image quality and contrast) located above the handlebar offers the rider a wide range

of information on a display that's bright and easy to read. Seven selectable ride modes electronically control the performance characteristics of the motorcycle and the level of RDRS intervention. H-D Connect service technology provides cellular connectivity that can link a LiveWire owner with their motorcycle through their smart phone using the latest version of the Harley-Davidson app.

Styling/Design: The LiveWire model creates a design foundation for coming H-D electric vehicles that projects authentic H-D styling. The LiveWire follows a key Harley-Davidson styling dictum - the focus is on the motor. Just as the engine is the most eye-catching element, of every previous Harley-Davidson motorcycle, the H-D Revelation electric motor is the first-look focus of the LiveWire motorcycle. Its bright case and



mechanical, muscular shape is meant to convey the power it contains. The cast aluminum case for the high-voltage battery has been deliberately highly styled with functional cooling fins that suggest the attractive, repetitive horizontal cooling fins on an air-cooled engine. The rear fender hugs and moves with the wheel so that it almost disappears from sight. This permits the high, wasp-like contour of the tail section below the seat.

Sources: AMD, IDN, FT, Reuters, PSB, MPN, B&B, BDN, MCN, AP, Bloomberg, MSNW, Electrek

Cringo



SHOWN IN
GLOSS BLACK

Substance never goes out of style.

LIGHTWEIGHT / COMFORTABLE / MEETS DOT & ECE REQUIREMENTS / XS-XXL



WWW.BILTWELLINC.COM
@BILTWELL



New Harley-Davidson Technologies Enhance Select Models

H-D Connect Service: The H-D Connect service introduces subscription-based cellular connectivity to equipped Harley-Davidson motorcycles to keep riders connected to their motorcycle through their smartphone using the latest version of the Harley-Davidson App. The H-D Connect service allows owners to connect remotely to their motorcycle to view key vehicle health information. It also provides the owner with the reassurance of being able to remotely monitor their motorcycle's security, including tamper alerts and stolen vehicle assistance, on the Harley-Davidson App.

H-D Connect service is a standard feature for 2020 Touring (except Road King/S and Electra Glide Standard models), Tri Glide Ultra and CVO models, and the LiveWire motorcycle (in regions where available). Harley-Davidson motorcycles equipped with H-D Connect service include a cellular telematics control unit (TCU) that functions as a (LTE) enabled modem connecting equipped motorcycles to the cloud.

The H-D Connect service is not available in all markets. Market availability will vary. The H-D Connect service will be offered for a one-year free trial period after the purchase of a new, untitled 2020 model year Harley-Davidson motorcycle in the U.S. that is equipped with the H-D Connect service. H-D Connect will be available with a subscription charge following the initial period.

Motorcycle Status: With H-D Connect service and the H-D App, the motorcycle owner will be able to check key vehicle health information on the H-D App at any time, from any location where sufficient cellular signal is available. Information available through the H-D Connect service includes high-voltage battery charge status or fuel level, available range, tire pressure (on TPMS-equipped models), ride mode (on equipped models), odometer, infotainment software updates where applicable, and riding statistics. LiveWire model owners can use the H-D App to search for, and navigate to, compatible charge station locations, and while charging, view time to completion and receive charging alerts without having to physically be near the motorcycle.

Tamper alerts and stolen vehicle tracking service: To ensure that an owner's bike is safe and secure, the H-D connect service indicates the location of the parked motorcycle on a

map in the Harley-Davidson App at any time and in any location where sufficient cellular signal is available. H-D Connect service will send an alert to the owner's phone if the security system is activated when the motorcycle has been bumped or is being tampered with. Another alert will be sent to the owner's phone if the motorcycle is moved out of the geofenced area, and GPS-enabled stolen-vehicle tracking provides peace of mind should the owner need to locate their motorcycle.

Reflex Defensive Rider Systems (RDRS): A new collection of technology designed to match motorcycle performance to available traction during acceleration, deceleration and braking. The systems are designed to aid the rider in controlling the vehicle while accelerating and braking in a straight



line or while in a turn. A rider may find the systems most helpful when riding in adverse road conditions and in urgent situations. The systems are electronic and utilize the latest chassis control, electronic brake control and powertrain technology.

Available traction is determined by the road/tire interface. The systems bundled into the RDRS are only able to adjust brake pressure or powertrain torque in an attempt to keep the forces at the tire from exceeding available grip. These technologies do not have the ability to increase grip, or to intervene when the rider has not made a brake or throttle application (e.g. coasting through a corner with the clutch disengaged). *RDRS is not a system to directly influence vehicle direction. This is a key difference between motorcycle RDRS and Automotive Stability Control.* The rider is ultimately responsible for speed,

steering and path corrections.

Cornering Enhanced Electronic Linked Braking (C-ELB) applies braking effort to both wheels when the rider uses either the hand lever (front) or foot pedal (rear) brake control, which can help many riders achieve better braking performance. The Electronically Linked Braking (ELB) system provides more responsiveness and allows for more balanced front and rear braking under a wide variety of brake applications. The system provides more linking when the rider is applying heavier braking and reduces or eliminates linking for light braking and low speeds. When linked, applying the front brake lever alone will cause the system to also dynamically apply an amount of braking to the rear.

Applying the *rear brake pedal alone* will cause the system to also apply an

amount of braking to the left front caliper. C-ELB takes into account the motorcycle lean angle or Trike lateral acceleration. C-ELB will alter the proportioning of brake pressure between the front and rear brakes when braking while cornering in an attempt to improve the ability of the bike to maintain the rider's intended path.

Cornering Enhanced Antilock Braking System (C-ABS) is designed to prevent the wheels from locking under braking and helps the rider maintain control when braking in a straight line, urgent situation. ABS operates independently on front and rear brakes to keep the wheels rolling and prevent uncontrolled wheel lock. C-ABS is a variant of ABS that takes into consideration the lean angle of a two-wheel motorcycle, or the lateral acceleration of a Trike model. The brake pressure required to limit wheel slip

when cornering is typically lower than the pressure required under straight line operation.

Cornering Enhanced Traction Control System (C-TCS) is designed to prevent the rear wheel from excessive spinning under acceleration when going straight or cornering. C-TCS can improve rider confidence when available traction is compromised by wet weather, a sudden unanticipated change in the surface, or when riding on an unpaved road. The rider may select one of two traction control modes: Standard Mode is optimized for dry surfaces; Rain Mode is optimized for wet surfaces. The system can also be turned off. The action of C-TCS is also tailored when cornering based on lean angle.

This C-TCS feature is standard on all 2020 LiveWire, CVO and Police models and optional on all 2020 Touring models in the U.S. (except Electra Glide Standard models).

Drag-Torque Slip Control System (DSCS) and Cornering DSCS is designed to reduce excessive rear-wheel slip under deceleration, which typically occurs when the rider makes an abrupt down-shift gear change or decelerates on wet or slippery road surfaces. When DSCS detects excessive rear-wheel slip under deceleration it will adjust engine torque delivery to better match rear-wheel speed to road speed. On models equipped with C-DSCS the action of DSCS may be tailored when cornering, based on detected lean angle (two-wheel motorcycles) or lateral acceleration (Trike models).

Vehicle Hold Control (VHC) applies and holds brake pressure when activated and prevents the motorcycle from rolling after the rider has released the brake controls. The primary function of VHC is to prevent the motorcycle from rolling when it is stopped - for example at a stop sign on a hill, in stop-and-go traffic on a slope, or on a steep decline out of a parking structure. VHC is designed to make it easier to ride away with confidence by minimizing the number of controls needed to pull away smoothly. The system applies brake pressure until the rider actuates the throttle and clutch to pull away. VHC may also be engaged when the motorcycle is stopped on a flat surface if the rider wants to maintain position without applying pressure to a brake control.

The rider activates VHC by

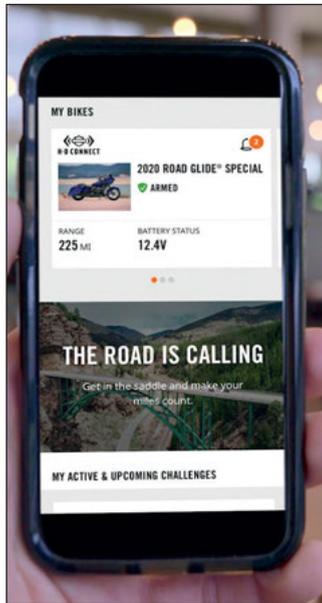
momentarily applying extra pressure to either the front-brake hand lever or the rear-brake foot control after the motorcycle has come to a complete stop. If the rider brakes very hard to a

the brake control. VHC is disengaged automatically as the rider begins to pull away from a stop, or if the rider applies and releases either brake control.

VHC is *not to be used as a parking brake*, and will disengage if the rider lowers the side stand (on models with a side stand sensor, not a feature in all markets) or shifts into neutral on models without a side stand sensor, or if the engine is turned off. In most situations after five minutes the indicator light will flash and the VHC will release if there is no rider action.

Tire Pressure Monitoring System (TPMS) alerts the rider to low tire air pressure. Maintaining proper tire air pressure is important both for vehicle performance and tire life. The TPMS displays current front and rear tire pressure on the Boom! Box GTS screen (or on the odometer on Road King models) and displays an indicator to alert the rider when tire pressure is low, and the pressure should be checked.

TPMS is a feature of RDRS and is also available as a stand-alone accessory through Harley-Davidson Genuine Motor Parts & Accessories for 2020 Touring models (except Japan) equipped with original equipment or accessory wheels that accept a TPMS sensor.



stop, and holds the brake pressure after stopping, VHC may also set without any added squeeze. A VHC indicator light will illuminate to confirm that the rider has activated VHC, and the ABS system will hold brake pressure after the rider releases

CVO TriGlide

"The most-requested model in the history of Custom Vehicle Operations is here and overflowing with features to lose yourself in. Dive into the 117-cubic-inch Milwaukee-Eight power. See it all with the new Daymaker Adaptive LED headlamp. Take hold of the Kahuna collection grips, levers, pegs and floorboards. Stay connected with top-of-the-line BOOM! Box GTS infotainment, a premium sound system and the BOOM! Audio 30K Bluetooth® headset to communicate with your infotainment system, your passenger and other riders. Keep your bike safe and sound and always ready to go with the smartphone-linked H-D Connect. And keep it all balanced on new 19-inch front and 18-inch Tomahawk contrast cut wheels and the choice of two premium custom paint finishes. This bike doesn't just have everything – it makes you feel everything."





AIRFX®

Air Suspensions

New - AirFX Indian Wide Tire Kit

- Steel fender with custom designed mount system for a precise fit
- Brake Upgrade to a 13" rotor and 6 piston caliper kit available
- Bolt On kit for use with stock rotors, calipers and 180 Front Tire

New - Indian Suspension Kits

This fully integrated system includes the Q-Pak Manifold, the patented AirFX Rear Mono Shock, and AirFX's industry leading Front Replacement Cartridges.



Q-Pak Switch Options



Indian custom tank dash micro buttons or handlebar mount switches available.

New - Q-Pak Valve Manifold



Purchase just the valve, or complete AirFX Integrated Control Solution packages.

HHI Hawg Halters Inc.
DISTRIBUTION PARTNER

Made in the USA
and Available Now!

PERFORMANCE, BY DESIGN.
AirFXUSA.com • 812.814.9978

New Softail: Low Rider S "Defiant Attitude"

Hard Edge Coastal Style: Raised hand controls are a defining element of the coastal custom influence. The Low Rider S model mounts a one-inch diameter motocross-style handlebar on four-inch high straight risers to put the rider in an aggressive and active position. A color-matched mini-fairing frames the headlamp and blocks the wind. A high back solo seat is shaped to hold the rider in place under hard acceleration.

All bright finishes are replaced with black for an aggressive look. The powertrain, primary cover and tank console are finished in Wrinkle Black; the derby cover, intake and lower rocker covers are Gloss Black. Mufflers and exhaust shields are Jet Black. Forks, triple-clamp, riser and handlebar and rear fender supports are Matt

Black. The LED layback tail lamp has a smoked lens. The five-gallon Softail fuel tank features an iconic Harley-Davidson graphic. Radiate cast-aluminum wheels (19-inch front and 16-inch rear diameter) are finished in Matt Dark Bronze for an intriguing contrast to the motorcycle's dark components.

Softail Model Foundation: The Harley-Davidson Softail motorcycle frame is a foundation for performance. The frame design is optimized to reduce weight without sacrificing stiffness while maintaining the classic look of a hard tail with a thoroughly modern ride. The rigid-mounted Milwaukee-Eight V-Twin engine contributes to a platform that delivers strong acceleration and responsive handling and braking performance.



Handling: A single coil-over shock features emulsion technology and an optimized angle between the frame and swingarm for enhanced travel and response. Under-seat hydraulic preload adjustment allows the rider to maintain optimal suspension performance for the prevailing load and road conditions.

A 43 mm inverted fork stiffens the front end for improved response to steering input. Single-cartridge internal technology responds quickly to inputs and keeps the front wheel planted for improved braking and handling performance. Fork rake is reduced to 28 degrees from the 30-degree rake of the standard Low Rider model, resulting in more responsive handling. Dual front brakes with 300 mm discs deliver stronger braking performance with less lever effort than the single front disc brake on the standard Low Rider model. Standard ABS (Antilock Braking System) provides confident braking

performance when conditions are less than ideal. The Low Rider S model rolls on high-performance Michelin Scorcher 31 tires.

M-8 114 Muscle: The Milwaukee-Eight 114 engine (114 CID; 1,868 cc), the only engine choice for the Low Rider S model, delivers the most displacement offered in the Softail chassis from the factory, cranking out 119 ft. lb. of torque at 3,000 rpm. A dual internally counter-balanced system reduces engine vibration while maintaining the familiar Harley-Davidson feel, while deep-breathing, four-valve cylinder heads and dual spark plugs squeeze the most power possible from every ounce of fuel. The engine is equipped with a Gloss Black Ventilator air intake with an exposed filter element to improve air flow into the engine, and 2-into-2 offset shotgun mufflers for an aggressive, performance look. Base price is \$17,999.00.



Road Glide Limited

A fully loaded Grand Touring machine with 114 cubic inches of power and new premium finishes. A frame-mounted shark-nose fairing, a 13.5-inch windscreen and dual Daymaker Reflector LED headlamps. There's all-new painted pinstriping, a gloss-finish inner fairing, heated hand grips and Slicer II Contrast Bright wheels. The twin-cooled Milwaukee-Eight 114 V-Twin engine "puts loads of power at your command. The H-D Connect Service will give you peace of mind no matter how far you are from it. The responsive frame and suspension, the electronic Reflex Linked Brembo brakes with ABS, the roomy Tour-Pak carrier, the BOOM! Box GTS infotainment and all the rest let you enjoy the ride to the fullest."



CVO Street Glide

"The pinnacle of the custom touring look taken to the edge and loaded with power. No corners were cut, no shortcuts were taken. We sweat every detail and then polished it like a jewel. Get the power of the Milwaukee-Eight 117 V-Twin engine, red rocker covers, premium custom paint, premium Talon wheels and custom controls, all-new BOOM! Box GTS infotainment with three separate amplifiers, 75 watts per channel and 900 watts of clear audio performance on the CVO Street Glide. There's a wireless headset interface that lets you use your Bluetooth headset to communicate with infotainment system, passenger and other riders. Keep your bike safe and sound and always ready to go with the smartphone-linked H-D Connect."



After Harley, MV Agusta Announces a China Light and Middleweight Displacement Deal

In the latest spin of the wheel in the motorcycle industry's burgeoning light and middleweight displacement direction of travel, former Harley-Davidson subsidiary MV Agusta has followed Harley down the path to manufacture small displacement motorcycles for the burgeoning lightweight and middleweight markets in China by inking a deal with Chinese industrial giant Loncin Motor Co.

Now under Russian ownership, the iconic Italian race and sportbike brand will see Loncin manufacturing MV Agusta branded 350-500 cc models in what is described as a "long-term strategic partnership agreement that has, as a base, the development of an all new family of MV Agusta products. "The vehicles will be completely designed by MV Agusta to occupy the premium segment of this high growth market - Loncin is the market leading motorcycle manufacturer in Asia. Like all MV Agusta products, this new 4-model family will embody the unique MV Agusta DNA - its unique sound and vehicle dynamics will spark a strong connection with all the new riders."

In a move that is clearly aimed at replicating their former owner's playbook, a strategy successfully pursued by several manufacturers in recent decades, not least by Ducati, "this strategic alliance will enable MV Agusta to enlarge its current product portfolio with the objective of increasing our riders globally and expanding access into Asia. The collaboration marks a significant progress towards a major pillar in the MV Agusta accelerated growth plan.



MV Agusta CEO Timur Sardarov with Loncin President Yong Gao

The company objective is to expand access to the MV Agusta brand and driving incremental sales, both of the new, smaller displacement motorcycles and of the current Italian 675, 800 and 1000 cc MV Agusta product range." The new models are slated to be in Chinese dealerships by the end of 2021.

Interestingly, MV Agusta and Loncin have confirmed that their partnership "will not be limited to the development of the new family of products in the 350-500 cc range. It also includes MV Agusta assisting Loncin in entering the premium segment market with MV's 800 cc platform.

Following its full take-over by Russian multimillionaire oil and gas magnate Rashid Sardarov in 2018, Giovanni Castiglioni, the last connection to the Castiglioni dynasty, was ousted as Chairman and CEO and retained as company President, with corporate and strategic management now in the hands of son and CEO Timur Sardarov. The President of Loncin, Mr. Yong Gao, announced: "The conclusion of the strategic agreement is conducive to Loncin's and MV Agusta's joint

response to the changes in global market demand and to the coordinated development of both sides. Loncin will use advanced manufacturing resources and Chinese market knowledge to help MV Agusta expand its product line and enhance product competitiveness. MV Agusta's technology and advanced design experience of high-performance motorcycles will support Loncin's VOGE brand in becoming the market leader of premium motorcycles in China."

Timur Sardarov is quoted as saying: "This strategic alliance is an important step to consolidate our vision for the future of MV Agusta. Our target is to reaffirm our leadership in the production of upper-premium motorcycles, while also enlarging our customer base by offering a broader range of products without compromising our distinctive design and performance."

Loncin produces over one million vehicles a year - mostly PTWs (Powered Two-Wheelers) and related units and has annual production capacity for 2,500,000 motorcycles, 3,000,000 motorcycle engines and 150,000 ATVs.

NEWS BRIEFS



As a patron of the event, FEMA (the Federation of European Motorcyclists' Associations) will speak at the First International Conference on Road Safety for Motorcyclists on Friday 20 September 2019 at the AISICO Test House & Lab in Pereto, Italy. Staged in collaboration with the European Union Road Federation (ERF), the ongoing work to make guardrails more motorcyclist-friendly is a priority theme. FEMA says the need of an international debate about this subject arises from the release in April of a new Italian decree about the road safety system for motorcyclists. The decree follows the EU regulation CEN/TS 17342:2019 and describes the technical specifications to reduce the impact severity of motorcyclists' collisions with safety barriers.

New motorcycle registrations in Germany were +6.24% January to July at 87,512 units sold - the best first seven months there since before 2008. The top selling model YTD remains the BMW R 1250 GS (7,739 units); with seven models among the top 30 best sellers, it is no surprise that BMW has stretched its German market dominance still further, having sold 21,198 units in total YTD for a 17.04 percent market share. Honda was second, KTM third, Yamaha fourth and Kawasaki fifth.

Sources: AMD, IDN, FT, Reuters, PSB, MPN, B&B, BDN, MCVN, AP, Bloomberg, MSNW, Electrek

**FROM 1941
UP TO THE
2000s...**

WWW.SURFLEXCLUTCHES.COM

Via Montesanto, 46
21049 Tradate (VA)
Tel. 0331.811.795
Fax 0331.811.065
E-mail surflex@iol.it

**...A VAST RANGE OF CLUTCHES FOR
HARLEY-DAVIDSON AND AERMACCHI**
plus the Europeans and the Japanese

ESTABLISHED

FROM *the* MAD MIND of DOCTOR JAMES SIMONELLI

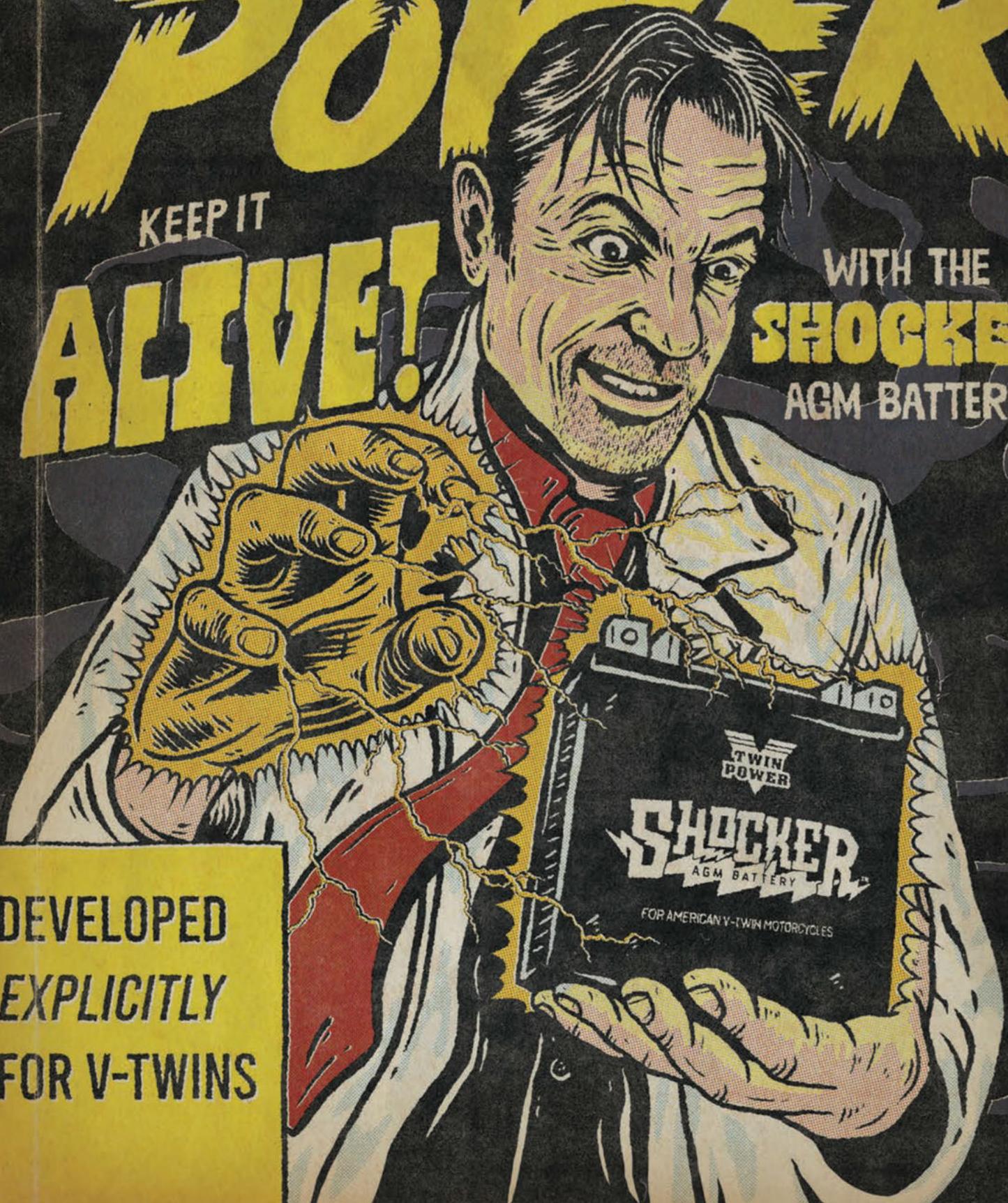


781151 781152
781153 781154
781155 781156

TWIN POWVER

KEEP IT
ALIVE!

WITH THE
SHOCKER
AGM BATTERY



DEVELOPED
EXPLICITLY
FOR V-TWINS



Polaris Reports Q2 Adjusted Sales +18% at \$1,779 million; Indian Gains Market Share on Down Sales

Polaris' motorcycles segment sales, including PG&A, totaled \$197 million, up +15 percent compared to the second quarter of 2018, driven by strength in Indian sales, particularly the new FTR1200 motorcycle, which began shipping globally in the second quarter, offset by declines in Slingshot sales. Gross profit for the second quarter of 2019 was \$27m compared to \$25m in the second quarter of 2018. The increase in gross profit was primarily the result of higher volume mostly offset by increased tariff costs. North American consumer retail sales for the Polaris Indian motorcycles decreased high-single digits percent during the second quarter of 2019 in a weak mid to heavyweight two-wheel motorcycle industry that was down low double digits percent. Indian outperformed the market with modest market share gains in North America during the quarter, driven by retail sales of its new mid-size bike, the race-inspired FTR1200, which has experienced strong initial demand both in North America and internationally.

North American consumer retail sales for Polaris' motorcycles segment, including both Indian Motorcycles and Slingshot, decreased mid-teens percent during the second quarter of 2019, while the North American motorcycle industry retail sales for mid to heavyweight motorcycles, including three-wheel vehicles, was down mid-single digits percent in the second quarter of 2019.

"Our second quarter results reflect the deft leadership and disciplined execution of our Polaris team. We worked diligently to overcome the impacts of tariffs, a very wet spring and an aggressive promotional environment, delivering financial results slightly favorable to expectations, but trailing our long-term performance goals," said Scott Wine, Chairman and Chief Executive Officer of Polaris Industries Inc.

"The strength of our industry-leading brands and vehicles enabled us to gain share in Indian Motorcycles and drive growth in Side-by-Sides with RANGER and RZR, although our decision to assume price leadership did impact volume, specifically in our lower margin youth and value segments.

"We are encouraged by our market share gains and year-to-date growth in Boats, as well as the continued improvement at TAP, where retail store



CONSOLIDATED STATEMENTS OF INCOME (LOSS)				
(in thousands US \$)	Three months ended June 30		Six months ended June 30	
	2019	2018	2019	2018
Sales	1,779,315	1,502,532	3,275,005	2,800,005
Cost of sales	1,342,867	1,117,356	2,486,109	2,091,348
Gross profit	436,448	385,176	788,896	708,657
Operating expenses:				
Selling and marketing	140,603	122,859	269,862	240,566
Research and development	76,379	68,330	143,499	133,560
General and administrative	104,090	92,874	197,028	171,567
Total operating expenses	321,072	284,063	610,389	545,693
Income from financial services	19,746	21,344	38,551	42,769
Operating income	135,122	122,457	217,058	205,733
Net income	88,263	92,540	136,641	148,254
Diluted Net income per share:	\$1.42	\$1.43	\$2.20	\$2.28

sales growth was up nicely. Our operational and dealer fundamentals are in good shape as we head into the critically important model year 2020 product introductions, and we anticipate improved retail performance during the second half of the year."

North American Side-by-Side retail sales increased low-single digits percent for the quarter compared to last year; Indian retail sales were down high-single digits percent, outperforming the industry and gaining share in an extremely challenging market.

Polaris has reported second quarter 2019 net income of \$88m, or \$1.42 per diluted share, compared with net income of \$93m, or \$1.43 per diluted share, for the 2018 second quarter. Adjusted net income for the quarter ended June 30, 2019 was \$107m, or \$1.73 per diluted share compared to \$115m, or \$1.77 per diluted share, in the 2018 second quarter.

Gross profit increased +13% to \$436m for the second quarter of 2019 from \$385m in the second quarter of 2018. Reported gross profit margin was 24.5% of sales for the second quarter of 2019 compared to 25.6% of sales for the second quarter of 2018. Gross profit for the second quarter of 2019 includes the negative impact of \$7m of restructuring and realignment costs. Excluding these costs, second quarter 2019 adjusted gross profit was \$443m, or 24.9% of adjusted sales.

ORV wholegood sales for the second quarter of 2019 increased 4 percent primarily driven by increased average selling prices. Polaris North American ORV retail sales decreased low-single



Scott Wine, Chairman and Chief Executive Officer of Polaris Industries Inc.

digits percent for the quarter with Side-by-Side vehicles up low-single digits percent and ATV vehicles down high-single digits percent. Shipment unit volume was down during the quarter, in-line with retail sales declines as the Company's retail flow management process (RFM) performed as designed. The North American ORV industry was up high-single digits percent compared to the second quarter last year, partly driven by new competitive product not in the market a year ago.

For the full year 2019, the Company is narrowing its earnings guidance range by increasing the lower end to \$6.10 per diluted share and maintaining the upper end at \$6.30 per diluted share, including the impact of the China 301 list 3 tariff rate increasing from 10% to 25% effective May 2019, and the benefit of the Company's tariff mitigation actions. The Company is also narrowing its full year 2019 sales guidance range and now expects sales to grow in the range of 12% to 13% compared to the prior year given only six months remain to year-end.

NEWS BRIEFS



A 1965 Aston Martin DB5 "Bond Car" achieved a record-breaking \$6,385,000 during a single-marque auction with Aston Martin at RM Sotheby's Monterey auction in August, exceeding the previous record by nearly \$2 million.

New motorcycle registrations in the UK were +2.33% January - July 2019 at 65,442 units. The largest single sector there are 'Naked' style bikes, accounting for nearly a third of sales (22,742 units), with Adventure Sport the second largest (12,820 units YTD - the BMW R 1250 GS Adventure the best seller). The 'Custom' sector was worth just under 5,000 units for the first seven months, with Harley's Sport Glide the best seller.

Japanese made motorcycle exports to USA for the first six months of 2019 were -20.48 percent 29,762 units. Total PTW exports (motorcycles, mopeds and scooters) to USA were -12.71 percent at 47,196 units. Motorcycle exports to USA from Japan were nearly 102,000 units in 2009, having peaked at around 217,000 in 2006. The increasing number of units being made by Japanese manufacturers elsewhere in Asia, the US and South/Central America goes some way to providing historical context for the data.

H-D is facing a class action lawsuit for an allegedly defective anti-lock braking system on the basis that dealers and riders were not warned about an alleged defect in the ABS wiring harness that could have resulted in the "possibility of sudden, unexpected ABS braking failure for over 150,000 motorcycle owners across the country." Plaintiffs in four states have filed class action lawsuits on behalf of the owners of Touring model motorcycles produced from 2008 through 2010.



Global dividends for April to June reached \$513.8bn (£423.6bn), up 1.1% from a year earlier. The growth rate is slowing though as the global economy also slows. A strong dollar is also making the growth look sluggish. It is estimated that companies worldwide will pay out a total of \$1.43 trillion in dividends in 2019.

Sources: AMD, IDN, FT, Reuters, PSB, B&B, BDN, MCN, AP, Bloomberg, MSNW, Electrek

NEWS BRIEFS



Spartan, "the world's largest obstacle course race (OCR) and endurance brand," has announced an exclusive national (USA) sponsorship with Harley, naming the Motor Company the "Official Motorcycle" of Spartan US. "This collaboration brings together two brands built from a common bond of community, adventure and individual transformation, and offers a new element of thrill at Spartan races across the United States as well as at select Harley-Davidson dealerships."



Polaris has revealed "a new corporate brand platform that represents its remarkable 65-year evolution to a global market leader with more than 30 brands. "Think Outside" – the evolved Polaris brand position – articulates the company's corporate brand in a way that supports its vision, defines its pioneering spirit, sets it in the marketplace and expresses the value offered through its expansive products and services."



During the Sturgis Rally, Hamsters USA raised \$318,344 for special kids at LifeScape in Rapid City, SD. Hamsters USA has raised and donated funds at the annual meeting for the last 14 years, "with a deep desire to give back to the greater Black Hills community," which many Hamsters consider their second home. This year's event brought the cumulative total of 14 years to over \$3.3 million in total dollars raised for LifeScape in Rapid City.

Harley was in fifth place in total PTW market share terms in Switzerland for the first seven months of 2019, having sold 1,631 units. Market share leader is Yamaha, followed by BMW, Honda and Kawasaki. Total new motorcycle registrations were down for the seven months to July 2019 by -0.99% (19,058 units).

AMA Opposes Tariffs on EU Motorcycles and P&A



In a July 31st press release, the American Motorcyclist Association (AMA) lobbied against plans announced by the Office of United States Trade Representative (USTR) to impose tariffs on select motorcycles imported from countries in the European Union.

"As part of a dispute over aircraft subsidies, the USTR has proposed 100 percent tariffs on motorcycles imported from countries in the European Union with an engine size between 500 cc and 700 cc, along with parts and accessories.

"The American Motorcyclist Association is joining others in the motorcycling community to oppose the USTR's latest ill-conceived proposal. Motorcyclists should not be penalized with exorbitant tariffs because of an unrelated trade dispute. Any trade sanctions imposed as a result of this dispute should come from more closely related

industries or products.

To oppose this tariff, the AMA is asking its members to sign a petition that will be presented to the USTR to demonstrate the motorcycling public's opposition to the proposal. The petition can be E-signed at the AMA website and its wording is

"Motorcyclists who depend on parts from Europe to keep their motorcycles in safe, working order will face increased cost and decreased availability under this proposal. This will result in motorcyclists putting off critical maintenance and will keep their vehicles off the road, negatively affecting the countless small businesses that depend on motorcycle-based tourism. Additionally, this proposed tariff will cause serious, and

potentially irreversible, harm to American small- and medium-sized business owners selling the motorcycles, parts and accessories.

"Should the availability of products be hindered through unjustified trade sanctions on European-produced motorcycles, dealerships may close, leaving countless Americans without jobs. The negative effects of the proposed trade sanctions will not only harm the motorcycle sales industry, but will spread through the aftermarket equipment sector, recreation equipment sales, the sports entertainment industry and further down the line."

americanmotorcyclist.com

AIMExpo Dealer Seminars

The Powersports Dealer Seminars at AIMExpo "are designed as a great benefit for dealership owners and staff attending September's big show in Columbus, Ohio" (September 26 - 29).

"The theme of this year's show is 'Together We Rise,' and we're taking that same approach to providing dealerships with the type of educational training that can simply help them grow as they return to their businesses," said Powersports Business Editor-in-Chief Dave McMahon, who has strategically formulated the presentation line-up for the seventh straight year.

All of the sessions will run during the exclusive trade days

on Thursday, September 26, and Friday, September 27 (the consumer portion of the show runs Saturday and Sunday). Dealers may choose whichever sessions they would like to attend, and attendance is free for registered dealers thanks to a number of industry sponsors. The curriculum, with 18 interactive and instructive sessions, was developed to improve the powersports retail business model across three key tracks: sales and marketing, sponsored by Torque Group; powering profits, sponsored by Aegis Powersports; and leadership plus, sponsored by McGraw Powersports Western Service Contract. The premier seminar sponsors are National

Powersport Auctions and Synchrony.

Returning to the seminar line-up for 2019 are the Dealer Roundtables. Scheduled just before the show's general session on Thursday afternoon, the roundtables allow dealers to collaborate with their peers about challenges they face as operators. Multiple 30-minute discussions on various topics will run concurrently, allowing dealers to take advantage of knowledge and experience from a number of industry colleagues.

To address the evolving marketplace, completely new subject matter is being added, such as an ROI vs ROE seminar - how customer experience will soon overtake price and product as the key brand differentiator.



Sources: AMD, IDN, FT, Reuters, PSB, MPN, B&B, BDN, MCN, AP, Bloomberg, MSNW, Electrek

Rake It, Brake It, and Slam It with HHI!



Rake It!
New Softail Triple Trees

Now available for the New 2018 & up Softail models, Triple Trees for the Fatboy, Slim, Deluxe and Breakout are here and ready to go. The Trees come in 4 degree rake for 21 and 23" wheel upgrades and 6 degree for a 26" wheel upgrade.

As always HHI Triple Trees are available in Show Chrome or Black – Complete & ready to install.



Slam It!
AirFx New Softail Shocks and Controllers

The NEW, Patented AirFx Mono Tube Air Suspension system leads the way with ride, comfort, adjustability and fit. The No Air Bag Designed, Mono Shock features a dual piston design, with a Black Hard Coat Anodized finish, Adjustable Rebound Control and outstanding Ride Control.

Brake It!
New 4 & 6 Piston Calipers



HHI's leading family of Differential Bore 4 & 6 Piston calipers just expanded again. We now have calipers for the exciting New Softail range of bikes, the 2006-17 Dyna, 2012-17 Victory Touring Bikes, 2012 & up Indian motorcycles and a new series of Dual Caliper Kits for Touring Bikes optimized for precision braking and balance in dual caliper applications.

As always, the HHI Direct Bolt on Calipers are exquisitely finished in Show Chrome, Black or Blaze Red and come complete with hardware and a pad set ready to go. HHI calipers are inherently strong, rigid and fit popular 11.5, 11.8, 13, & 18" applications.



New Softail 2018 & Up Forward Controls

The 2018 Softail custom Forward Controls from HHI are now available. Delivered in Show Chrome, Black and Shadow Cut with several custom arm choices and peg styles, they come in Standard or Extended length. Build your new Softail right, add the best from HHI!

HHI *START WITH THE BEST, BUILD THE BEST...*
Hawg Halters Inc.

HawgHalters.com • 877.442.5837

Letric Lighting Co.

MOTORCYCLE LIGHTING



- ✓ LED Plug-n-Play Turn Signals
- ✓ LED Plug-n-Play Taillights
- ✓ LED Bagger Accent Lighting
- ✓ Plug-n-Play Pre-Wired Headlights
- ✓ LED Plug-n-Play Passing Lamps
- ✓ LED Plug-n-Play Headlamps
- ✓ Exclusively distributed by TUCKER
- ✓ Buy direct at www.letriclighting.com



(Dealers welcomed, illuminated displays & signage available)



Where the brightest ideas come from!™

INDIAN PERFORMANCE PRODUCTS

★ FROM BARNETT ★

AVAILABLE FOR ALL 2014 AND LATER
CHIEF AND SCOUT MODELS
PERFORMANCE IMAGINED
FOR THE WAY YOU RIDE.

Barnett
Clutches
& Cables



BARNETTCLUTCHES.COM

CLUTCH CABLES

- High efficiency inner wire
- Available in stock and custom lengths
- Traditional black vinyl, Classic Stainless and Platinum Series

BRAKE LINES

- Stock and custom lengths
- Designed to match our cables
- Available in Black w/chrome, Classic Stainless, Stealth all black and Platinum Series

CLUTCH KITS

- Includes friction plates, steel plates and heavy duty springs
- Direct fit upgrade

CLUTCH SHAFT ARM

- Redesigned to provide better clutch separation, smoother shifting and ease in finding neutral
- Fits 2014 & later Indian Baggers



Oh, Hell Yeah!



Mid-USA's Antique Springer. The Perfect Combination of High Tech, Classic Styling and a Ton of Cool.

Available in Chrome or Gloss Black Powder Coat, in Five Different Lengths.

Additional V-Factor™ Parts Featured On Custom Build Include Sporty Gas & Oil Tanks, Rear Fender, Seat Springs, Headlight, 40 Spoke Wheels and Much More.

**All Parts Available From A Mid-USA Parts Dealer Near You.
Builder: Tom Lauria, St. Louis, MO**

Call 1-800-527-0501 in the U.S. or 1-800-893-9261 in Canada to order a 2019 catalog or to find out how to become a Mid-USA Dealer.

www.mid-usa.com



ALMOST ANY BIKE
BRAKE PADS OR ROTORS FOR ALL RIDING STYLES

Find the right part with
the **PRODUCT SELECTOR**
at **SBS.DK**

sbs[®]

GO AHEAD

HI-TECH BRAKE SOLUTIONS
MADE IN EUROPE



Choose your model

Select the fields in any order

Type Brand* CCM* Model* Year*

SHOW MATCHES >

NEW SEARCH



OFFICIAL BRAKES OF



FOR TIPS & NEWS - sbsbrakes | www.sbs.dk

MEET US AT EICMA
5-10 November 2019
Hall 24 boot G80

**PARTS
UNLIMITED**

MIC - Strategic Plan to Attract New Riders



The Motorcycle Industry Council (MIC) is launching a broad, long-term initiative to bring more people into the world of motorcycling with the announcement of a strategic long-term plan to "grow ridership" to be announced at AIMExpo, Columbus, Ohio, September 26-29.

"It's clear the industry needs to reach and inspire new customers. While many of us, with our individual businesses, have taken steps to grow ridership, we also should be working together, and the MIC wants to help make that happen," said Paul Vitrano, MIC board chair and Senior Assistant General Counsel at Indian Motorcycle and Polaris Inc.

"To help us fully understand the barriers to entry, and to create an inclusive strategic plan that will be available to all stakeholders, one that will address conquering those barriers, we have partnered with a team of researchers and strategists to bring fresh perspectives to this challenge and opportunity."

The MIC has hired consulting firm Centauric LLC to lead the first phase of this initiative. "Centauric has committed an impressive multi-



disciplinary team of behavioral scientists, engineers and business consultants, and takes a unique approach to problem-solving. We are excited to be working with them on this critical initiative," Vitrano said. Centauric "has begun conducting secondary and additional primary research that, after a series of ideation and solution labs involving a mix of

industry stakeholders, will lead to a strategic plan. The plan will be presented at AIMExpo.

"This is not designed to be a quick fix, nor is it just about sales," said Chuck Boderman, MIC Vice Chair and Vice President, Motorcycle Division, American Honda Motor Co., Inc. "It's about showing people how motorcycles can fit into and enrich their lives, no matter where they live, what they do, what their hobbies are, or how old or young they are.

"This will take time, so we are committed to building a campaign that takes the long view."

www.mic.org

Zero at AIMExpo

Scotts Valley, California based electric motorcycle manufacturer Zero has announced that it is to exhibit at AIMExpo, Columbus, Ohio, September 26 - 29. On show will be 2019 additions

to its line-up, including the "Fully Smart2 Zero SR/F" - the well-received take on streetfighter styling on an electric powerplant platform with a 3 kw rapid charger that starts at \$18,995.00.



"We're thrilled to be showcasing the 2020 Zero Motorcycles product line at AIMExpo in September," said Sam Paschel, CEO, Zero Motorcycles. "AIMExpo attracts the most influential and successful powersports dealers in North America, and we're fortunate to count many of our most valued business partners among those who will be in attendance."

"As the powersports industry introduces more alternative-powered vehicles to the market, it is one of AIMExpo's top priorities to showcase these products and highlight the latest innovations within the industry for dealers and consumers," said Andre Albert, Director, Sales and Marketing, MIC Events. "Electric motorcycles are not just an evolution of the current market, but also represent the opportunity to reach potential new buyers."

zeromotorcycles.com



At the time of its launch earlier this year Zero described the SR/F as its "most innovative and powerful" motorcycle yet, incorporating a "revolutionary" new operating system - Cypher III - and delivering 40 ft-lbs of torque and 110 horsepower." Powered by Zero's ZF75-10 motor and ZF14.4 lithium-ion battery, a single charge is said to give riders up to a 200-mile range with the addition of Zero's Power Tank (available fall 2019). The Rapid Charge System works on Level 2 charge stations and provides a platform that allows for up to three independent charging modules, with charge from 0 to 95 percent capacity in one hour.

NEWS BRIEFS

Motorcycles.org, the MIC's media outreach operation, has been developing its 'FirstRide' experience for media and influencers. Andria Yu, director of Motorcycles.org - "We all want to build ridership, and that starts by helping put someone behind the handlebar for their first time. Motorcycles.org staff have been developing the Motorcycles.org FirstRide experience, a fun, three-hour session designed to give beginners their initial brief, feet-on-the-pegs ride from point A to point B on a closed range. The program is being presented to select mainstream journalists and influencers in New York and Southern California. It serves as a proof of concept that could be used by the MIC, its members and dealers.



Australian powersports market sales were -11.4% in the first six months of 2019. Honda was the overall leader with a 24.2 percent share of all sectors of the national market, followed by Yamaha with 21.1 percent and Kawasaki with 10.7 percent. On-Road bikes were the largest single sector of the Australian market, taking 36.9% of sales in Q2 (down from 42.2% in Q1 2019). H-D sales were down 19.4% compared to the first six months of 2018, but with 2,925 units sold, they remain the market leader (3,629 sold in the first half of 2018). Off-Road bikes took a 34.5% share of available sales; the ATV/SSV sector took 22.7% of sales, Scooters 5.9% of sales. Indian Motorcycle sold 323 units in the first six months, down from 453 units (-28.7%) from the year ago period.

New motorcycle registrations were +12.26 % in Spain for the first seven months of 2019 at 108,472 units sold - the best since before 2009.

Total motorcycle registrations in Sweden were +12.12% January - July 2019 (9,001 units) - the best first seven months for new motorcycle registrations in Sweden since before 2014.

Sources: AMD, IDN, FT, Reuters, PSB, MPN, B&B, BDN, MCN, AP, Bloomberg, MSNW, Electrek

NEWS BRIEFS

New motorcycle registrations in Poland were +39.23 percent at 13,869 units for the first seven months of 2019 - the best since 2016. When used motorcycles from elsewhere in Europe that are receiving their first registration in Poland are factored in, the total number of new and used motorcycles sold were running at +12.56 percent for the YTD (60,182 units - the best since before 2010). Poland is Europe's 6th largest market in total new and used PTW terms.

The Austrian motorcycle market was -12.64% for Q2 at 6,424 units, leaving it at -0.49% for the year to June 2019 (9,910 units). In its home market KTM is motorcycle market share leader, having sold 2,434 units in Q2 for 24.56 percent market share. BMW is second (1,366 units sold, 13.78 percent share), Honda third (10.68 percent share), followed by Yamaha (10.52 percent), Kawasaki (7.02 percent) and Harley-Davidson 6th with a 6.17% share.



RumbleOn, the online buy and sell platform for pre-owned powersports vehicles, posted record revenue of \$270.2 million dollars for Q2 2019 with unit sales of 13,928 vehicles. CEO Marshall Chesrown: "Our success in powersports has given us a playbook that we are deploying across the automotive business rapidly, and we are in the early days of establishing ourselves as a leader. We believe there is an immense opportunity for us to continue to gain market share in powersports."

Harley brakes vendor Brembo (Italy) has revealed first half year revenues of €1,323.8m, -0.7% on a consolidated like-for-like basis, with EBITDA up by 4.1% at €270.6m. (20.4% margin). Brembo decided to discontinue industrial operations at its Buenos Aires plant, with Brembo Argentina S.A. placed in liquidation. Global sales declined by -7.6% in Japan, -4.6% in Italy and by -13.6% in Germany; China was flat at -0.5%. Sales grew by +18.2% in India, +5.3% in France and by +1.0% in the UK. North American sales (USA, Mexico and Canada) rose by +6.7%.



'Da Hooligan' - a 'Zod-Bob'

As multi-European Top Fuel Champions, Zodiac International has long been noted for its in-house dyno tuned and engineered performance project bikes, and seen here is 'Da Hooligan', the latest chapter in a Zodiac specials story that started at least 25 years ago.

This 2018 107ci/1750 cc M-8 Fat Bob is the latest stocker to get the Zodiac treatment with all parts used available from their "Bikers Book" catalog. As is usual with Zodiac, the emphasis has been on relatively straight forward and inexpensive modifications for a 'real world' performance project that they can put within the reach of all their dealers' customers, built by Zodiac CEO Vincent Pels and his team at their in-house Dynojet dynamometer and CNC-equipped race workshop.

On the basis that if you are going to improve the performance, then addressing the shortcomings of the stock chassis' mannerisms is always the place to start for Vincent. His three priorities were first and foremost handling the upgraded power, then inexpensive engine tuning that strikes the right balance between gain and budget, and then the looks - the package you wrap it all up in.

The handling has been beefed up with Italian made Bitubo components - a fully adjustable Bitubo cartridge kit for the H-D fork tubes at the front and preload and rebound-adjustable Bitubo shocks at the rear.

First up was an S&S air cleaner, Andrews M462 camshaft and a Two Brothers Racing 2:1 exhaust, fuel and injection tuned using the advanced and proven Czech made Diag-4-Bike system. On 'Da Hooligan' the results of these simple steps have been an increase in the stock 75 bhp and 110 ft.lb torque at 3,000 rpm to 109 bhp (a thumping 45% increase) and 127 ft.lb torque (172 Nm).

Having been among motorcycles with the Zodiac drag racing team all his life, Vincent did the mapping himself. In

Text and pictures by Onno "Berserk" Wieringa /Madness Photography



tuning the Fat Bob he explained that "we have not focussed on top end horsepower. It always sounds great, those big numbers, but what a rider ultimately wants is an engine with lots of torque at lower rpms, a strong bike that reacts well on the throttle in all rpm ranges."

In terms of accessories, Zodiac raided the warehouse for a Burly Brand fairing that had exactly the right width for the fat front fork. Zodiac has developed a kit that consist of a 5 3/4 headlight housing mounting kit for the headlight and the Burly fairing with a plug & play Zodiac wiring kit. "For the headlight we opted for a Vision-X LED with halo ring and, together with

adjustable RST levers, Zodiac 'Argile' grips and a set of (Italian made) Otto di Cuore minimalistic indicators, so the Bob got completely different looks." At the rear the original large bracket with license plate holder and all the stock lighting was removed. The Zodiac Revox rear light turned out to fit perfectly under the rear fender and a set of Otto di Cuore indicators sit very discretely on fender struts. Zodiac has also developed a custom side mount for the license plate, including the required lighting, and a set of PM 'Formula' series (cam, transmission and derby) covers gives the engine a custom touch.

www.zodiac.nl

Smoke Them Miles



Custom builder Thor Drake of See See Motorcycle Coffee Co fame (Portland, OR.) has apparently had a dream - to cook while out on the open road. So he decided to bring together two heritage brands - Indian Motorcycle and Traeger Wood-Fired Grills - custom building a one-of-a-kind Indian Springfield Darkhorse with an Ironwood 885 wood pellet grill attached as its sidecar. "This Springfield Darkhorse features a fully functional Traeger ironwood grill, allowing the rider to experience the thrill of riding while cooking a delicious wood fired meal. Leave those greasy spoon diners in the rear-view mirror and chow down on juicy brisket, smoky ribs and killer pulled pork wherever your travels take you."





NEW!

BRAKE ROTORS FOR BETTER PERFORMANCE

Mountain carving in the Alps, Stop & Go in the city, full throttle on the highway.

Brake rotors have to do a very hard work. That's why Drag Specialties' best is exactly what your customer needs.



TYPE FTK ROTOR:

Premium Performance Upgrade

- More than 15% better heat dissipation due to the patented FTK design
- Highest manufacturing quality; lightweight design
- High quality stainless steel alloy
- Extreme braking performance
- Floating disc, exceptional stability

TYPE FT ROTOR:

Excellent braking performance, also under heavy load

- Floating brake rotor, high stability
- Reliable performance under heavy load
- Highest manufacturing quality
- High quality stainless steel alloy
- Lightweight design

TYPE F ROTOR:

Solid, precise and durable

- High stability and secure deceleration
- High quality stainless steel alloy
- Excellent quality



DRAG SPECIALTIES
DISTRIBUTED BY:



BECOME A DEALER! 
www.dragspecialties.eu/sign-in

MOHAWK™ WINDSHIELDS



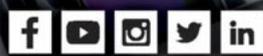
Uses Same Mount
Kit as Our Famous
Flyscreen®

Quantum
hardcoated
Dark Tint Polycarbonate

Choice of
Black or
Chrome
Hardware

VISIT NATIONAL CYCLE!
AIMEXPO.
26-29 SEPTEMBER 2019
BOOTH 1543

Available Worldwide!
00+1 708-343-0400
idn@nationalcycle.com
www.nationalcycle.com/international



WORLD'S BEST MOTORCYCLE WINDSHIELDS AND ACCESSORIES



NAMZ Custom Cycle Products, Inc.

- ✓ CAN/Bus Controllers
- ✓ Electrical Connectors
- ✓ Complete Wiring Harnesses
- ✓ EFI & Ignition Harnesses
- ✓ Handlebar Extensions
- ✓ Throttle-by-Wire Harnesses
- ✓ Braided Hoses & Clamps
- ✓ Plug-n-Play Headlights
- ✓ Tools & Installation Supplies
- ✓ V-Twin-Indian-Victory-Metric
- ✓ Custom - OEM - Private Label

Providing over 16-years of wiring excellence for consumers, distributors & manufacturers.

namzccp.com



WWW.FEULINGPARTS.COM

1-866-966-9767



BULLETPROOF' YOUR ENGINE



**MORE POWER
MORE OIL PSI
COOLER ENGINE
COOLER OIL
NO BLOW BY**



FEULING

HIGH VOLUME OIL PUMPS - LIFTERS - HIGH FLOW CAMPLATES
PUSHRODS - CAMSHAFTS - CAM INSTALL KITS - VALVESPRINGS

Whatever you ride, here at DP Brakes we have the perfect DUST-FREE, NOISE-FREE high-performance, long-lasting, all-weather brake pad for you.

Check out www.dp-brakes.com to see which of our latest sintered metal compounds is right for your bike.



- No brake dust -
- Progressive Feel -
- More Mileage -
- No Brake Fade -
- No Brake Squeal -

Keep your whitewalls WHITE
with our NO Dust, NO Noise XHDP pads
specifically designed for Harley Davidsons



www.dp-brakes.com

DRAG
Specialties



**ARLEN
NESS**

"FORGED WHEELS"

WWW.ARLENNESS.COM



7-VALVE



FLARE 5



PROCROSS



DRIFT



[instagram.com/arlennessmotorcycles](https://www.instagram.com/arlennessmotorcycles)



www.facebook.com/ArlenNess

**ARLEN
NESS**

WWW.ARLENNESS.COM

ULTIMA MACHINE SHOP SERVICES



Following our article back in June about Midwest Motorcycle Supply's Ultima program and the Evo and TC 'A' Engine Rebuild Programs, we were contacted by Brian Brace, the Program Manager and Lead Engineer for the Ultima Products program, and he told us more about the machine shop services that the company offers to its dealers ...

The article we published in June was as part of our 2019 series marking the 35th anniversary of Harley's now venerable Evo platform - arguably the engine that not only saved Harley-Davidson, but that created the foundations of the aftermarket we have seen "evolve" ever since.

Brian told AMD that at Ultima it is their engine cases that are the "rock solid foundation to our motors. These cases are extremely beefy and built to handle high horsepower and torque. CNC- machined in-house from C356-T6 aluminum castings, all Ultima case halves are line-bored as a married set to insure a perfect center line, with Colony Machine chromoly cylinder studs to top them off.

"Ultima's crankshafts are completely assembled in-house. Our cranks are dynamically balanced to provide a smooth core to our engines. Ultima



Words by Robin Bradley
robin@dealer-world.com

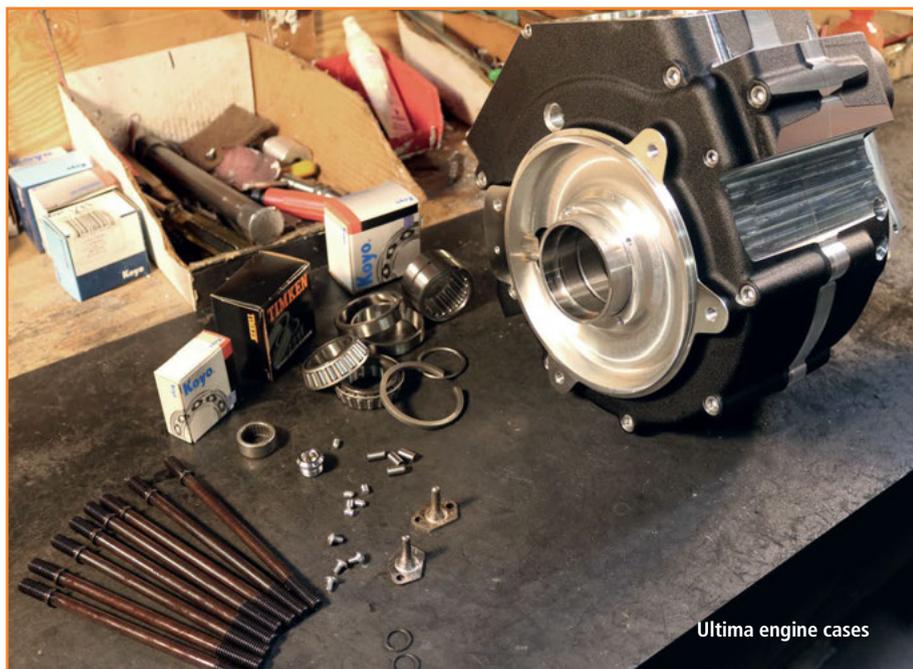
Pictures - Howard Schroeder, Midwest/Ultima



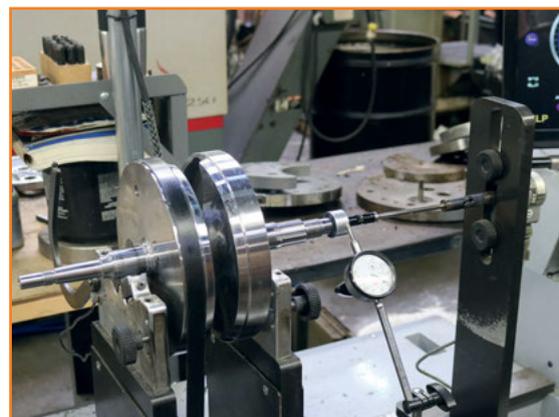
engines use a 3-piece crankshaft similar to the Twin Cam crankshafts. High quality bearings, crankpins and H-beam rods with .927 wrist pin ends make these cranks virtually bulletproof.

"The flywheel halves are pressed together with our custom 80 ton press - and with .008" press fit on the crankpin, shifting of the flywheels is never an issue. Then the final assembly is trued to no more than .002" total run-out."

Brian says that Ultima cylinders are machined to tight tolerances and honed in-house. Every cylinder is plateau-honed with diamond stones in torque plate



Ultima engine cases



Ultima crankshaft assemblies



10
5



Ultima cylinder heads

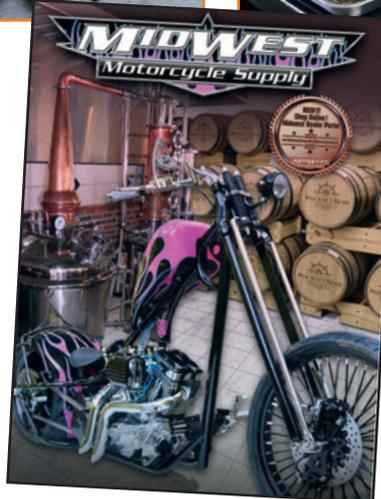


Engine assembly



fixtures that insure a perfectly square cylinder top to bottom. All the 4.25 inchers are baked and slowly cooled to stress-relieve the liner, with the 3.875" and 4" bore cylinders having a thicker liner (therefore stress-relieving is not necessary). Cylinder bores are held to very tight tolerances within +/- .0001". "Ultima cylinder heads are machined to tight tolerances also," says Brian. "All valve seats are cut in-house on Newen fixed turning machines. Every head is then assembled using high quality components from Pac Racing, Ferrera and AV&V. All heads use chromoly spring retainers. The 140" CNC-ported heads use titanium spring retainers. Compression releases are standard in all of our heads and after assembly every head is vacuum tested to insure the valves seal completely." All sub-assemblies then come together on the assembly line, where the short block is then assembled, with every engine getting a high-volume billet oil pump. Camshafts for Ultima engines are

manufactured and ground by Andrews to Ultima specs. Johnson hydraulic roller lifters are then installed in the lifter blocks with chrome or black powder-coated lifter blocks, cam cover and Ultima pre-programmed ignition module installed to finish off the lower end. "The upper end then starts to come together, with the cylinders matched to top quality forged aluminum pistons from Mahle. Multi-layer steel head gaskets and Colony head bolts seal up the cylinders and heads. The intake manifold is now installed and vacuum-tested to insure proper seal, and Ultima chrome or black rocker boxes with our patented stainless steel reed assembly top off the engine. Ultima American made 4140 adjustable pushrods carry the load from the lifters to the 4140 forged steel roller rockers. "Then the engine reaches the test stand. At this point it is run with an electric motor to prime the oiling system. Oil pressure and compression are checked at this point and after passing these tests, the carburetor is mated to the intake manifold. The motor is then cleaned up and inspected for leaks. Finally, the motor is bagged and boxed in sturdy spray foam packing and ready to ship to your door." Brian went on to explain that having all these capabilities in-house puts them in a superior position to be able to let dealers share in their experience and



expertise. "Basically, there isn't much we can't do. Our engine rebuilding service is available to our dealers worldwide. By offering this service, the dealer's customer gets a quality rebuild complete with a 6-month, 6,000 mile warranty. "However, it doesn't stop there. We are also offering this service for S&S and Harley-Davidson Evo V-twins as well - adding another option to get that motor rebuilt correctly, and at an unbeatable price."

Ultima offers this service for all Ultima engines, 80" thru 140", and select Big Twin Evolution style engines and the Twin Cam "A". Ultima machine shop services extend from the crankshaft and cases to the cylinders and heads. This includes, "True and Rebuild" for the Evo crankshaft; disassemble inspect, fit new rod set to new crankpin and bearings, balance and reassemble with sprocket or pinion shaft as an additional option.

"We will bore the case for big bore cylinders (Evo and Shovelhead) and recondition the deck base gasket surfaces.

MIDWEST MOTORCYCLE SUPPLY
Pevely, Missouri, USA
Tel: 636 931 3200
midwest@midwestmc.net
www.MidwestmcDealerExpress.com
www.ultimaproducts.com



Springer Style E-Mark Headlamp

This E-approved, street legal 7" Springer-style headlamp from Dock66, Duisburg, Germany is a classic full size (175 mm diameter, 140 mm deep). Available in black satin finish, it has a conical bucket and 160 mm visible headlamp insert and plastic "prism reflector" lens.

"The timeless sophistication of this Springer-style headlamp is perfect for chopper and custom projects and for bringing a bit of design authenticity to 'new age' custom projects. The classic



bottom mounting matches lots of Harley-Davidson models and - with a custom mounting - many other motorcycles and custom bikes."

The H4 12V 60/55W driving light and high beam and 12V 5W position light bulbs are included, along with electrical wiring.



DOCK66 MOTORCYCLE PARTS
 Duisburg, GERMANY
 Tel: +49 (0)203 3934 4740
info@dock66.de
www.dock66.de

Scorpion Series 106 Tooth Ring Gear & Starter Clutch Pinion Gear

The newest addition to the Scorpion Series Harley-Davidson Clutch Components range by Barnett Clutches & Cables



(Ventura, California) is this "superior quality" 106 tooth replacement ring gear and starter clutch pinion gear for 2006 Dynas and '07-'17 Big Twins.

The Ring gear is made from hardened 8620 steel, then given a black oxide finish. The new starter clutch pinion gear "features a 20 percent larger gear and rollers than the factory replacement for added strength and durability." Ring gear and pinion gear are sold separately.

BARNETT CLUTCHES & CABLES
 Ventura, California, USA
 Tel: 805 642 9435
info@barnettcables.com
www.barnettcables.com



50 State Legal Grand National 2:2 for 2018+ Softail



Inspired by its total domination in American Flat Track, Viola, Wisconsin based S&S Cycle says it has "taken performance exhaust to the next level."

Combining a two into two format with a hidden crossover, the Grand National system is designed for "pure, relentless performance. Clean bends, stainless header tubing and full shielding have created an exhaust that makes real power without the punishment of melted boots and the uneven torque delivery associated with most other short tract systems."

Available in chrome or black ceramic, the Grand National 2:2 is now 50 State legal and CARB compliant - "yes, it still sounds great and makes killer power!" Fitment is available for most narrow wheels Softails (Fat Bob, Street Bob, Low Rider, Slim and Deluxe).

TECH TOUR

Grand National 2:2 Exhaust for Dyna and M8 Softail

S&S CYCLE INC.
 Viola, Wisconsin, USA
 Tel: 608 627 1497
sscust@sscycycle.com
www.sscycycle.com

TUCKER POWERSPORTS

EST. 1967



4900 Alliance Gateway Fwy

FORT WORTH
TEXAS



TUCKER.COM

MAKE YOUR MARK.



Spoiler Windshield w/ Hand Guards and Wind Deflectors on Rusty Baldwin's , @rustybagger24, 2010 FLHTC.

MADE IN MEMPHIS | #ShadyMark

memphisshades.com



SMOKE THE COMPETITION!TM NOT YOUR CLUTCH!



HIGH PERFORMANCE CLUTCHES FOR AMERICAN V-TWIN MOTORCYCLES

HIGH PERFORMANCE EXTRA PLATE KITS

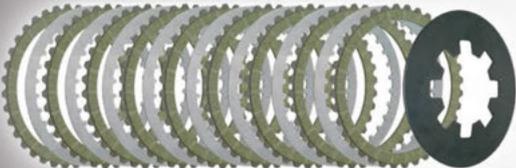
BTX-5



Fits 1941 - 1984 Big Twin. Includes 6 friction plates with 6061 T6 aluminum cores and 5 tempered steel drive plates. Also includes 10 zero crush coil type clutch springs. Stack height is pre-set for easy, accurate installation. Can run wet or dry. 20% more surface area than stock!

**100%
MANUFACTURED
IN THE USA**

BTX-11



Fits 1990 - 1997 Big Twin and 1991 to present Sportster and Buell through 2002. Includes 9 friction plates on tempered steel cores, starburst groove pattern for maximum heat dissipation and oil circulation, and 8 tempered steel drive plates. Pre-set stack height for easy installation. 15% more clutch area for high performance strokers. Also included is a 15% stronger than stock diaphragm clutch spring. This kit eliminates the double riveted steel plate.

BTX-14



Fits 1998 Big Twin and Twin Cam models through present. Kit includes 10 friction plates on 6061 T6 aluminum cores, 9 tempered steel drive plates and a 10% stronger than stock diaphragm spring. Pre-measured stack height for easy, accurate installation. 11% more surface area than stock.

**EXTRA
PLATE KITS
INCLUDE
SPRINGS**

KITS AVAILABLE FROM 1941 TO PRESENT

ENERGY ONE PERFORMANCE CLUTCHES >> Contact Us Today, Call 562.404.5200 >> www.energyoneclutches.com

Zodiac Additions

Ciro 'Shock & Awe' 2.0 Lighting



"Awe as in awesome! Shock & Awe 2.0 takes LED lighting to the next level," says Mijdrecht, Netherlands based Zodiac International. "Ciro has packed the new app full of exciting features such as a racing mode to track your speed, music and microphone integration, three-channel output, brake function, and more! With the *Ciro* Bluetooth app riders can choose from millions of colors to find the perfect match for their bike or any other vehicle they choose to accessorize." Sold as a complete engine lighting starter kit, a physical controller is also included, but that does not support as many functions as the app does.

Hyperpro 'Link System' Suspension Springs

These 'Link System' suspension springs are the result of many years of R&D on front forks, shocks, springs and suspension systems by Dutch specialist Hyperpro. Zodiac says that "most of the time a linear spring is either too hard or too soft at the beginning and/or at the end of its compression stroke cycle. A so called one-step progressive spring is an improvement, but is still a compromise between comfort and safety. The sudden change from soft to hard is often felt as a handling disadvantage and can

lead to "speed wobbles". Hyperpro came up with a non-compromising solution: the "Link-System Curve Design" for springs. With this construction, a spring can be designed to satisfy all the demands of modern motorcycle technology. Hyperpro gives you a sensitive initial part of the stroke with a smoothly increasing spring rate for safety and anti-dive at the end of the stroke. Together with the use of the highest quality materials and precision-machining, this results in the best springs that money can buy." Hyperpro fork springs are manufactured to DIN-2095, class 1, are specially polished for minimal friction and carry a lifetime warranty against breaking. These shock springs are said to provide superior road holding and handling under all conditions and are thoroughly tested on a computerized dyno and on the bike in question. Zodiac has them for almost any Harley since 1984.

Two Brothers Racing Comp-S Exhaust for XG750

Corona, California based Two Brothers Racing 2-into-1 exhaust systems "are designed to deliver maximum torque" - they feature race-inspired stainless steel headers that "have pounds off the competition to ensure a long lasting, weather



resistant, amazing sounding exhaust." They come complete with heat shields and are available ceramic black coated with carbon fiber end cap.

ZODIAC INTERNATIONAL BV
Mijdrecht, NETHERLANDS
Tel: +31 (0)297 288 621
sales@zodiac.nl
www.zodiac.nl



NEED A PIPE ?



SLASH CUT MUFFLER



STRAIGHT CUT MUFFLER



THE FLUKE SILENCER



TURN OUT MUFFLER

MORE MUFFLERS AT



Denali CANsmart Accessory Controller



Exeter, Rhode Island based Denali Electronics is introducing its CANsmart controller for Harley-Davidson applications. Described as "ground-breaking," the Denali CAN bus controller is said to provide plug & play connection and intelligent control of aftermarket and genuine Harley-Davidson accessories "right from the bike's original switches or the Denali Accessory Manager Software."

"Simply connect the CANsmart controller to the H-D diagnostic port to create four intelligent accessory outputs for controlling passing lamps, turn signals, horns, brake lights, or any other accessory.

"One of its standout features is the ability to control auxiliary lighting right from the factory trip switch. You can turn lights on and off, change the intensity and set a high and low intensity that works in sync with

the factory high beam switch. Other auxiliary light settings include a flash to pass feature, modulate lights feature, and a "cancel with turn signal" feature.

"For the rear of the bike, the intelligent brake light circuit will enable multiple flash pattern braking options as well as a deceleration-activated "smart brake" feature that will automatically activate auxiliary brake lights before you even grab the brake.

"The CANsmart also provides a universal accessory mode where you can power a phone charger, GPS or heated gear, to name just a few options. Each output provides up to 25 peak amps or 10 amps continuous. The circuits are electronically fused, which means you can set them to whatever value you want, and if tripped they will automatically reset with a cycle of the ignition."

Denali's free Accessory Manager Software allows riders to simply choose what accessories they want to run and then select which features they'd like to activate for each accessory.

Denali includes six plug & play wiring harnesses so you can instantly connect Denali driving lights, DRLs, brake lights, horns "and even genuine Harley-Davidson passing lamps right out of the box."

"The CANsmart controller redefines



motorcycle lighting and electronics by doing what would seem to be impossible. It provides dozens of intelligent safety features and infinite customization while actually making it quicker and easier to install and operate accessories."

DENALI ELECTRONICS
Exeter, Rhode Island, USA
Tel: 401 360 2550
info@denalielectronics.com
www.denalielectronics.com



MOTORCYCLE STOREHOUSE
WE STORE. YOU ROAR!

ABSOLUTE 756
WORKSHOP MOTORCYCLE LIFT

Bike-Lift
EUROPE

MOTORCYCLESTOREHOUSE.COM

Motorcycle Storehouse B.V. The Netherlands does not sell retail. You can purchase our catalogs and products through your local dealer. For pricing & availability check our website.

SINCE 1982 - AFTERMARKET PARTS & ACCESSORIES FOR
V-TWIN MOTORCYCLES

Baker Stock Replacement DD5

The Baker Drivetrain DD5 "is not just a replacement for the stock 5-speed - the torque capacity, long term durability and shift quality are greatly improved over stock and will handle up to 200 hp with no problem," says 'Guru of Go' Bert Baker.

Features include a one-piece countershaft with fifth gear, larger door bearings, billet 6061-T6 chrome door for strength, hard chrome plated shift forks for wear resistance, smooth roller shift system with redundant neutral that vastly improves neutral finding and a five-year limited warranty.

Bert says that "it handles over 200 ft/lbs of torque - more than stock - and gives way smoother shifting; our longer lasting components make it more reliable and durable, and until you have experienced the ease with which the DD5 allows you to find neutral, you don't know what you've been missing."

All DD5 bearing doors have the same outer profile as a stock 5-speed, so exhaust brackets, torque arms etc. fit like stock. The DD5 door comes with or without an ear - the ear door is for exhaust bracket mounting (and does not fit 1993-2006 FL applications). The DD5 door bearings are larger, providing 25% more dynamic load capacity than the stock bearings used through 1998.

"Our 5-speed shift system with roller detent guarantees smooth shifts every time and our redundant neutral ensures that finding neutral is easy. We mount a plunger detent on the left side pillow block and cut a plunger track into the shift drum itself. The plunger follows this track during operation (shifting) and when shifting into neutral



pops into a pocket. This system lets you feel that you're shifting into neutral - no more guessing. The shift drum features more aggressive timing on the

fork groove profiles and is case-hardened to 58 Rockwell for wear resistance and crisp shifts. We built our reputation on smooth shifting 6-speed transmissions, and our 5-speed drum designs benefit from the engineering lessons learned."

The splined main shaft comes as standard on the DD5 builder's kit. A +.800 main shaft and pulley for wide tire applications is available upon request. The 2.94 1st gear ratio is described as a good all-rounder; the optional 3.24 1st gear is recommended for heavy GVW applications; the R-Ratio 2.82 1st gear is recommended for light hot rods. "We recommend a 2.21 2nd gear ratio for use with the 2.94 and 3.24 1st gear ratios. The 2.08 2nd gear is normally paired with the 2.82 1st gear for racing applications.

"All DD5 gearsets come with a one-piece counter shaft, eliminating the well-known Achilles heel of the stock 5-speed under high horsepower and/or heavy GVW applications - namely that the 5th gear cracks radially and splits in half with catastrophic results. Our one-piece design is good to 200 hp. All our gears are made out of 8620 steel - shaper-cut before heat treatment (58-62 Rockwell 'C') then precision-ground with diamond coated tooling; these extra steps ensure not only a quieter gear pair, but enables much tighter backlash control."

Applications include '87-'89 Softail, FXR, FLT-FLH; '90-'06 Softail, FXR; '90-'92 FLT-FLH; '91-'05 Dyna; '93-'06 FLT-FLH.

BAKER DRIVETRAIN
Haslett, Michigan, USA
Tel: 517 339 3835
info@bakerdrivetrain.com
www.bakerdrivetrain.com



Custom Dynamics ProBEAM Adaptive LED Headlamps

Youngsville, North Carolina based Custom Dynamics continues to add to its ProBEAM line with these new LED headlamps featuring JW Speaker Adaptive technology to provide maximum light output "where it's needed most - it moves with you."

"With advanced engineering and design, Custom Dynamics' ProBEAM headlamps offer the highest-



Adaptive LED headlamps



grade automotive LEDs and components. ProBEAM Adaptive headlamps are available in 7" and 5.75" with a chrome or black reflector. The 7" version now comes conveniently packaged with all required components for all 2013-earlier (mounting ring) and

LED halo fog lamps



most 2014-current (wiring adapter) Harley-Davidson Touring models."

Also seen here, these ProBEAM LED halo fog lamps utilize Cree LEDs to produce a superior beam pattern with a super bright white LED halo for extreme light output (430 effective lumens at 13.2V, color temperature = 6000K). "State-of-the-art adjustable beam ensures maximum brightness with vertical or horizontal mounting. The 2.36" diameter lens casts a bright white pool of light near the motorcycle and fills in the dark area between the bike and the low beam headlamp pattern while 12 white LEDs illuminate as a constant on running light halo mimicking our popular ProBEAM Dynamic Ringz. The high-power LED fog lamp can be independently turned on and off with the integrated push button switch."

Each ProBEAM fog lamp requires a 8 mm mounting hole and easily installs onto 1.25" engine guards with ProBEAM accessory mounting clamps (sold



Dynamic LED vent inserts

separately). They are 100% plug and play installations for most Harley-Davidson and Indian models and are also available for universal applications. They come in a chrome or black finish. These Dynamic LED vent inserts for Harley-Davidson Road Glide models bolt on to the left and right sides of the Road Glide headlamp, providing added white LED running lights with "eye-catching amber LED turn signals behind a smoked lens. The complete vent insert features a decorative mesh to fill the voids between the headlamp and fairing on each side." Available in gloss black or chrome finish with a stainless or black decorative mesh, they are a plug and play installation for '15-'19 Road Glide, Road Glide Special and Road Glide Ultra models, including CVO. They work with the OEM headlamp or Custom Dynamics own TruBEAM LED motorcycle headlamp. All these products are available through Drag Specialties and backed by Custom Dynamics' lifetime LED warranty.

CUSTOM DYNAMICS LLC
 Youngsville, North Carolina, USA
 Tel: 919 554 0949
info@customdynamics.com
www.customdynamics.com

MIVV 'No-Kat' Headers for Touring

Founded in 1969, Italian exhaust manufacturer MIVV has launched its first ever applications for Harley models. 'No-Kat' head pipes are a high-quality performance OE replacement for late model Harley Tourers.

The company says that its decision to enter the Harley-Davidson exhaust aftermarket with headers rather than complete systems or slip-ons was taken because the header is "where the greatest weight of a replacement exhaust system is to be found and where the heat build-up is greatest."

"For 50 years our specialties have been high quality, lightweight materials and exhaust system thermal management. Yes, of course we produce stylish designs but above all we engineer comfort and performance, durability and reliability." MIVV claim impressive



numbers for the heat control results of their included, larger high tech 'No-Kat' header heat shield designs - 110 degrees C for the catalyst area of the pipe, compared to 290 degrees C for a comparable OE pipe, 28 degrees C at the area adjacent to the footrest, compared to 90 degrees C, and 196 degrees C at the manifolds, compared to 370 degrees C.

MIVV 'No-Kat' headers are interchangeable with the stock components and manifold. The OE heat shield can be retained if preferred, as can the OE or any aftermarket silencer.

On a 2018 Street Glide (1,745cc), MIVV also quotes rear wheel power increases and an impressive torque gain of up to +5 Nm. MIVV 'No-Kat' headers are available for selected Touring models from 2017 and up, including CVO models and M-8 Tourers.

MIVV S.P.A.
 Sant' Omero (TE), ITALY
 Tel: +39 0861 8120237
moto@mivv.it
www.mivv.com

AlumiCore Grips



Available in a wide range of colorways, Temecula, California based Biltwell has announced that its popular 'AlumiCore' grips are now back in stock. Described as a "grippy solution for your gnarly Harley," they are available for dual-cable or throttle-by-wire applications in black or chrome with a range of replacement alternative colorway sleeves. Biltwell, USA, www.biltwellinc.com

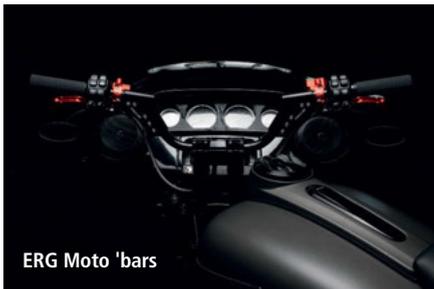


Kraus ERG and Pro-Line Accessories

Best known for custom builds and suspension expertise, Santa Rosa, California based Kraus Motor Co is launching two new accessory lines - ERG and Pro-Line. Initial offerings in the ERG program will include



ERG front floorboard



ERG Moto 'bars

stylish rider front floorboards, mini passenger floorboards and moto bars. "Designed for individuality, each product in the ERG line is adjustable to comfort and riding style. Distributing weight properly and increasing the bodies core manoeuvrability optimizes control of the machine and achieves comfort and performance," says motorcycle handling expert Satya Kraus.

The Pro-Line "offers high quality in styling and functionality. Whether ripping sweepers at 120 mph or sitting still, the bike will look great running Kraus Pro-Line components. The high-gloss anodized machined aluminum complements the look of your Harley while offering increased performance through durability and weight savings." Initial offerings in the Pro-Line will include a stylish



Pro-Line front fender

gas door, front fender, tank cover and the first to market, the Kraus Pro-Line slider derby cover is already available - a direct replacement for the stock



Pro-Line derby cover

derby cover on M-8 Harley Baggers that comes with a replaceable slider to protect the primary.

KRAUS MOTOR CO
 Santa Rosa, California, USA
 Tel: 707 632 6252
info@krausmotorco.com
www.krausmotorco.com

FXDR License Plate Relocation Kit

Fullerton, California based Harley conversion specialist Heartland USA has addressed the "issue" of what many regard as the ugly and unnecessary Euro-style 'Monster Arm' (spar) that holds the license plate at the rear of the FXDR.



The company's new license plate relocation kit mounts to the swingarm at the same location as the Euro Arm with the arm's OEM bolts. Available in vertical or horizontal positions, it has a built-in plate light.

Machined from 6061 aluminum, the bracket is made with details to match the stock swingarm design and is powder coated 'Wrinkle Black' to match. The plate frame is coated in 'Gloss Black' for contrast.

HEARTLAND USA
 Fullerton, California, USA
 Tel: 310 822 2697
info@heartlandbiker.com
www.heartlandbiker.com

'95-'19 4.5" BAM Sticks



Lincoln, Nebraska based TAB Performance says that "if you are looking for a slip-on that is loud enough to wake the dead and keep you safe out there on the roads, then this is it. Our new 4.5" BAM Sticks with Zombie baffles will bring your bike to life. We also carry quieter baffle options for those of you with aftermarket headers or if you want something a little less aggressive. The new 4.5" mufflers have all of the same great qualities as our 4" muffler with just a tad deeper exhaust note. Also, they will beautifully fill out the gap on the new stock extended bags." They are available in black and chrome.

TAB Performance, USA, www.tabperformance.com

TXR Fairing Kit

Constructed of high impact black plastic with a smooth finish for easy paint prep, this TXR Fairing Kit designed by Californian manufacturer Russ Wernimont (RWD) ships with black powder-coated mounting brackets and features stereo cutout, accepting most double DIN style stereos and speaker cutouts with 6.5" 'small magnet'-style speakers (2.3" max. depth). Covers are included for



all cutouts if a stereo system is not desired. The design incorporates a 14" tinted windscreen, headlight relocation bracket and a universal amp mounting bracket (3.9"x7.9"x1.5" maximum amp size); it measures 24" W x 23" H (headlight wiring may need to be extended in some applications).

DRAG SPECIALTIES
 Janesville, Wisconsin, USA
 Tel: 608 758 1111
drag@dragspecialties.com
www.dragspecialties.com
www.russwernimont.com

M-8 Balancer Bearing Installer

Camarillo, California based JIMS says that "all M-8 engines (Softail and Touring) incorporate balancers to reduce vibration. Our newly developed balancer bearing installer, which can be used in conjunction with our existing balancer bearing remover, allows the bearings to be precisely installed in the proper location. Incorrect installation of these bearings can cause severe damage to the crankcase, or even complete engine failure. The precision machined installer aligns to the crankcase via case bolt and dowel locations, allowing the technician to install the bearings on a workbench without the use of a driver or press."

JIMS, USA, www.jimsusa.com



Hoglite Street or Strip Racing Swingarm for Harley Baggers



This latest version of the Hoglite swingarm by Lexington, North Carolina based C&S Custom is its Street or Strip Competition Series Racer swingarm for late model '97-'19 Harley-Davidson Touring motorcycles.

Focused on "enhancing speed, performance and traction through weight reduction, adjustable shock-height and axle positioning," this "high-tech, aerospace-quality" Hoglite swingarm features engineered enhancements to deliver significant weight reduction with a structurally enhanced swingarm fabricated using extruded 6061-T6 aircraft-quality aluminum.

Additional weight savings include a lightened hollow-tube axle - this combination is said to deliver a 43% reduction in weight compared to the factory swingarms.

The swing arms feature three adjustable shock-

height positions built in the swingarm and 4" worth of adjustability from the three slot axle adjusters. The axle blocks will accommodate 3/4", 25 mm, and 1" axles. Air tanks, extended lengths, NOS brackets and powder coating are available as optional extras.

The spherical bearings, which are designed for improved handling and manoeuvrability, are unique to C&S Custom's products. Harley-Davidson's factory brakes, spacers and rear wheel bolt up and require no modification. They are direct stock replacement or can be custom built to a specific application. Hoglite coatings include thousands of powder-coat colors, chrome, and contrast cuts.

C&S CUSTOM CYCLES
 Lexington, North Carolina, USA
 Tel: 336 242 9730
sales@candscustom.com
www.candscustom.com

Rizoma for XL 48

Italian accessory designer Rizoma has unveiled a selection of parts for the Harley-Davidson Sportster Forty-Eight - "a collection of 13 products that takes the heritage shapes found in the Forty-Eight and elevates them to a contemporary design sensibility.

"By simultaneously paying homage to traditional but striking new lines and mood, the Rizoma H-D 48 collection is truly a balance

between the classic and the leading edge - a new union of tradition and contemporary design," according to the company. The line-up includes a front axle nut cover, front fender, headlight fairing and mounting kit, TÜV approved handlebar, ABE certified adjustable brake and clutch levers, a custom



'Black 5-Hole C-Thru' Derby Cover



Newburgh, New York based Tedd Cycle/V-Twin Manufacturing's new 'Black 5-Hole C-Thru' derby cover in billet aluminum and glass comes with a black finish and features a leak-proof and oil-resistant glass window. It fits 1999 and up FXST and FLST, '99-'17 FXD and '99-'15 FLT models and is also available in chrome. Tedd Cycle, USA, www.vtwinmfg.com

design front brake fluid tank and cap, 'URL0' grips, 'Lunar' mirrors, 'Club' front indicator with OEM position mounting and cable kits, TÜV approved 'Touring' rider pegs with 'Rally/Touring' mounting kits options, a derby cover, rear axle nut cover, 'Club S' rear indicator light with cable kit and an ABE certified 'Fox' license plate support kit.

Rizoma also offers a wide range of universal fit and model-specific parts designs for many additional late model Harleys.

RIZOMA
 Ferno (VA), ITALY
 Tel: +39 0331 242 020
info@rizoma.com
www.rizoma.com

TBR

WWW.TWOBROS.COM

Available for 2018+ Softail Models

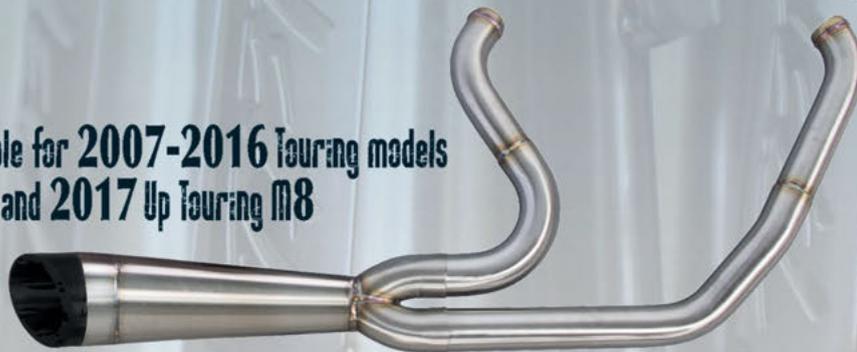
Shorty Slash Cut 2-1 Systems

New Available



2-1 Full System

Also available for 2007-2016 Touring models
and 2017 Up Touring M8



Designed to deliver maximum Torque & Horsepower to the new 2018 and up M-8 Softail

Fabricated and dyno tuned for maximum clearance and performance !

Available in Stainless, Polished or Black finishes

Handcrafted in the USA

Distributed in Europe by :

info@twobros.com
info@mag-connection.com



Drag Specialties Additions

EZ-On Mount Low-Profile Solo Seats



Drag Specialties' low-profile solo seats feature a solar-reflective leather in the seating area and automotive-grade vinyl on the sides. The combination is a patented process that reduces the surface temperature by as much as 25°F and results not only in a cooler seat, but is said to deliver higher durability and longer life over conventional leather or vinyl.

A flexible urethane foam interior provides maximum seat comfort, while the seat's geometry places the rider 2" further back and up to 1" lower than the stock seat for a better riding position with a low, clean look. The 3/16" ABS thermoformed seat base has a carpeted bottom and rubber bumpers to protect the motorcycle's paint job.

An EZ-On mount system allows for seat installation and removal without the use of any tools. It can be used with Drag Specialties' solo rear seats (sold separately) and includes all necessary mounting hardware. Available with either black or silver double-diamond stitching for '08-'19 FLHT/FLHR/FLHX/FLTR models.

Programmable Electronic Speedometers



These 4" speedometers are plug-n-play replacements for the OEM speedometers found on '04-'13 FLHT/FLTR, '08-'10 FXCW/FXCWC, '04-'11 FXD/FXDL and '04-'13 XL models.

They feature a programmable speed display and an odometer display that can be set to show previous speedometer mileage. The low fuel warning light functions on all models except '04-'06 XL models. Warning light functions must be programmed on the OEM speedometer in order to operate with these speedometers.

Available with a black or white face and in mph or km/h., the OEM fuel sender resistor kit is required for '07 XL models.

OEM-Style Fork Tubes

These are highly durable, chrome finished fork tubes in 20.875", 22.875" and 24.875" sizes. 20.875" replace the OEM items on '97-'13



FLHT/FLHR/FLHX/FLTR models without cartridge style forks. The 22.875" tubes fit '00-'17 FLS/FLST models and 24.875" tubes fit '00-'17 FXST/FXDWG models. All tubes accept OEM components and are said to offer less drag and improved seal wear over other fork tubes. They are sold in pairs.

Advance Unit Assembly



This new advance unit assembly includes a stainless steel base with steel cam, fly weights and springs. The assembly works with all '70-'99 Big Twin models (except Twin Cam), as well as all '71-'85 XL models. A mounting bolt is included.

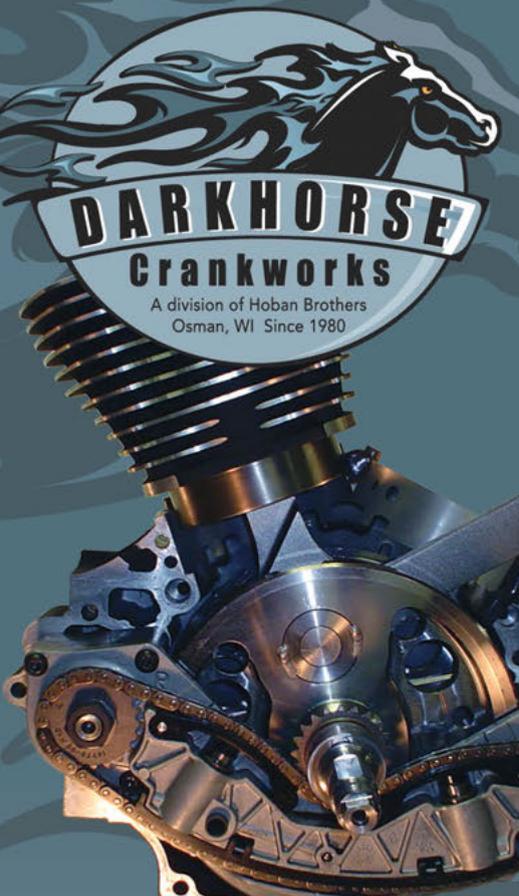
Clutch Shell



This Drag Specialties high-quality replacement clutch shell with starter gear for '84-'89 Big Twin models is a direct OEM replacement.



DRAG SPECIALTIES
 Janesville, Wisconsin, USA
 Tel: 608 758 1111
drag@dragspecialties.com
www.dragspecialties.com



DON'T LET YOUR BOTTOM END BE A SHAKER!



CALL TODAY, MAKE IT A MONEY MAKER!

920.726.4990

www.darkhorsecrankworks.com
 SINCE 1980

THE ROCK SOLID FOUNDATION TO ALL H-D® MOTORS STARTS AND ENDS WITH US!

Fuel Valve

Street Billet Grips

Electric Shifter

Kickstand Extension

Passenger Floorboard Spreaders

Cycle Jaws

Antenna Low Mount

Floorboard Spreaders

Kickstand

Heel Shift Eliminator

Rear Lowering Brackets

Greaseable Shifter Shaft

PINGEL
Since 1967

Pingel Enterprise, Inc. 608-339-7999 www.pingelonline.com

ARNOTT'S ULTIMATE RIDE SERIES

Avoid rider fatigue and strain with Arnott's Ultimate Ride series mono shocks for sport bikes. These kits have been custom-designed to replace the original shock and provides the rider superior control, ride comfort and height adjustability.



ELEVATE YOUR RIDE.®



ARNOTTCYCLES.COM



877.900.0247

CCE's Latest Bolt On And Ride Project



'Formula'

New from La Palma, California based Performance Machine and available through distributors, including Custom Chrome Europe, these 'Formula' and 'Scallop' rocker box covers are CNC-machined in 6061 T6 heat-treated aluminum and both are a direct replacement for the OEM rocker on M-8 models.

Available contrast cut or chrome, the 'Formula' cover is adapted to the early lightweight spoke wheels. The 'Scallop' is available in contrast cut, contrast cut platinum and chrome and features machine-cut scallops with the iconic PM logo. Both ship with gaskets and hardware for D.I.Y. installation. Also seen here, Custom Chrome Europe has taken its

'Scallop'

"Bolt On and Ride" (BOAR) program into 2019 with a completely new line-up of BOAR motorcycles that range from Sportsters to the most current Harley-Davidson model lines – and another custom Indian. This BOAR Indian Scout is built by Flieden, Germany based Indian Dealer "Rhönmotor". It is the second "Bolt On and Ride" Indian from Custom Chrome Europe, said to "combine a cruiser type low riding position with a modern interpretation of Café Racer/Cruiser style with Drag style performance and unique handcrafted accessories.

"Based on the powerful, lightweight Indian Scout with its cast aluminum frame and engine, "Rhön Racer" features a slew of CCE distributed parts,



Photos: Horst Roesler

including a Burly Brand "Café Sport" fairing, Café Racer tail end by Blechfee Jochen Lehmann, Heinz Bikes' "ZC-Line Micro" fork tube clamp-mounted indicators at the front, a minimalistic but powerful Kellermann "Rhombus SDF" LED taillight/turn signal combination at the rear, a precision-fit electronic box by Indian dealer and specialist Patrick Meyer of Swiss-based PM American Cycles, and a Cult-Werk (Austria) kit mounts the license plate to the side, including the LED-powered illumination.

The aggressive styling is enhanced by Kuryakyn's race-inspired "air scoops", mounted left and right to the tank, Kuryakyn frame accents, "chin spoiler" and Thresher footpegs, TXT sheet metal front fender, Fehling "Z-Bar Flat" and Avon rubber grips.

Additional accessories include motogadget's "m.view" Café Bar end mirrors with patented edge- and frame-free polished aluminum convex mirror surface, Öhlins S36 rear shocks, RevTech "Meridian" design wheels, Galfer 'Wave Disc' front brake rotor, Arlen Ness "10-Gauge" front pulley cover, right engine cover and stator cover and a Dr. Jekyll & Mr. Hyde exhaust system.

CUSTOM CHROME EUROPE
Grolsheim, GERMANY
Tel: +49 (0)6721 4007 0
info@customchrome.de
www.custom-chrome-europe.com

BANDIT MACHINE WORKS

WE MAKE IT WORK FOR YOU!

OUR SPECIALTY

Clutches and belt drives and related parts, tools and accessories for Harley-Davidson motorcycles.

OUR GOAL

To provide the best products of their type available to motorcycle motorsports enthusiasts.

Original Bandit Superclutch for Big Twins, in production for 32 years, the first complete replacement clutch assembly for H-D

MADE IN THE USA



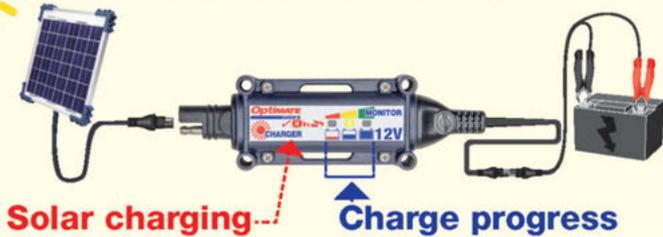
BANDIT SUPERCLUTCH MACHINE WORKS

222 Millwood Road
 Lancaster, PA 17602-4780, USA
 TEL: 717-464-2800

www.banditmachineworks.com
info@banditmachineworks.com

THE SOLAR CHARGER THAT WORKS DAY AND NIGHT!

CHARGER BY DAY



MONITOR BY NIGHT



THE 12V KITS



10W
TM522-1

20W
TM522-2

40W
TM523-4

60W
TM523-6

80W
TM523-8



optimize1.com



Optimate High Performance Battery Chargers

PERFORMANCE KB 120" M8 MOTORCYCLE PISTONS PISTONS

NEW KB SUPER DUTY M8 PISTON SERIES Featuring LINE2LINE COATINGS

New 120" M8 Super Duty Pistons fit 2017 - current year Harley Davidson 114" & 117" Milwaukee 8's using stock cylinders bored to 4.125", 11:1 compression with generous valve pockets to accept 1mm larger valves.

KB M8 Series Feature:

- Hard Anodized Crown aids in heat deflection and corrosion from alcohol fuels
 - Top ring groove Hard Anodizing eliminates micro-welding of the ring to the groove and maintains a flat and smooth surface for best ring seal
 - Round wire locks
 - Premium Hastings 1.2mm 1.2mm 3.0mm rings
 - Steel Nitrile top ring with a Ductile Napier Second
- M8 Series Features Line2Line Abradable Coating standard. Line2Line is applied the thickness of the piston-to-wall clearance for a ZERO install clearance. The coating abrades in on start-up to hone for the perfect fit per cylinder, and eliminates piston rock for the best possible ring seal with no piston slap noise.



Complete Kits Include 2 pistons, rings, pins and locks.

Part No.	Description	Bore
KB542LCA.STD	M8 120"	4.125" Bore
KB542LCA.010	M8 120"	4.135" Bore
KB542LCA.020	M8 120"	4.145" Bore
KB542LCA.030	M8 120"	4.155" Bore
KB542LCA.040	M8 120"	4.165" Bore
KB542LCA.060	M8 120"	4.185" Bore

NEED A DEALER?
CHECK OUT THE DEALER LOCATOR AT
WWW.UEMPISTONS.COM



KB Performance Motorcycle Pistons
Division of United Engine & Machine Co.
800-648-7970

V-Factor Stock Replacement and Big Bore Piston Kits



Hazelwood, Missouri based Mid-USA Motorcycle Parts continues to add to its V-Factor performance components line with these OE replacement and performance upgrade pistons and piston kits.

For 1200 cc Evolution Sportster conversions, V-Factor cast pistons have moly coated skirts for performance and longevity. Sold as pairs in kits, they include wrist pins and wrist pin keepers.

They are available for 1986 and later XL applications in standard 3 1/2" or +.005" bore; for 2009 and later applications 1200 cc cylinders must be used (available separately) as the OEM cylinders cannot be bored to 1200 cc.

For 93 and 103 ci Big Twins, V-Factor replacements match factory specifications and compression ratios. Features include moly coated skirts and kits include



wrist pin and clips. Sold singly.

They are available for 96 ci 9.2:1 compression ratio standard bore applications from 2007 and up; for 103 ci 9.7:1 compression ratio applications from 2007 to 2016, they are available in choice of standard bore, +.005", +.010" or +.020".

V-Factor cast low compression pistons (enabling the use of pump gas without detonation) that meet or exceed original equipment specifications are also available with moly skirt, piston pin and lock rings for a wide range of additional applications such as

74 ci – 1200 cc 8.51:1 standard compression ratio for Panhead and Shovelhead applications in a range of sizes from standard 3 7/16" bore right out to +.070" bore.

For 80 ci – 1340 cc Shovelheads in 8:1 standard compression ratio from standard 3 1/2" bore out to +.050" and for low and standard compression ratio Ironhead Sportsters 54 ci – 900 cc (1957-1971), 61 ci – 1000 cc ('72-'85), and 74 ci – 1200 cc Sportsters ('88-'03) - all in a selection of bores from standard to oversize.

See the 2019 Mid-USA catalog (available in print and online) for full details and the full range of V-Factor components.



MID-USA
Hazelwood, Missouri, USA
US direct: 314 595 5555
US toll free: 800 527 0501
Canada: 800 893 9261
www.mid-usa.com
www.mid-usa.ca



Rinehart Emissions-Compliant Full System



Asheville, North Carolina based Rinehart Racing has released what it is describing as its "revolutionary Slimline Catalyst Duals exhaust system for 2017 and later Harley-Davidson Touring models. This full system exhaust has been cleared by the California Air Resources Board (CARB) and has met the requirements of the Environmental Protection Agency (EPA) as legal for sale and installation in all 50 states."

The new system features a proprietary Power Flow catalyst "engineered to outperform even 'open' catalyst-free systems. The results observed in independent dynamometer testing show significant increases in power and torque compared to stock exhausts and

other emissions-compliant systems currently on the market.

"Other design features promise to make this latest rendition of Rinehart's classic exhaust system a must-have for Harley Touring motorcycle owners. The unique design moves the catalytic converter away from both the rider's and passenger's legs and feet, providing a cooler and more enjoyable ride. The system also features 12 mm and 18 mm O2 ports, optimally placed for dyno tuning and proper measurement of exhaust gas concentration from the port, allowing the engine to perform efficiently."

Sold as a complete system with a choice of Rinehart 4" slip-on mufflers or Rinehart 4.5"

MotoPro45 slip-on mufflers, the system is available in chrome or black, with chrome or black end caps and is backed by Rinehart's limited lifetime warranty.

RINEHART RACING
Asheville, North Carolina, USA
Tel: 877 264 8282
www.rinehart racing.com



SEVENTIES LINE HANDLEBAR CONTROLS

Available for 1" and 7/8" handlebar, 12mm and 14mm bore piston, in Polish, Satin, Raw and Black finish

KUSTOM TECH
 QUALITY MOTORCYCLE PARTS

info@kustomtech.eu
www.kustomtech.eu



BRAKE



CLUTCH



FRONT AIR CYLINDERS



FRONT / REAR AIR VALVE

BLEED FEED TECHNOLOGY **PLATINUM** AIR SUSPENSION

"It's all about the Ride"



BLACK / POLISHED

EVO SOFTAILS
1985 - 1999



BLACK / POLISHED

TWIN-CAM SOFTAILS
2000 - 2017



BLACK / CHROME

**FLH, BAGGERS,
VRODS, DYNAS**



REMOTES



M-8 SOFTAILS
2018 & 2019



LIFTED



SLAMMED



**2018 SOFTAIL
SHOCK MOUNTED**

INFO@PLATINUMAIRSUSPENSION.COM

(714) 871-2424

WWW.PLATINUMAIRSUSPENSION.COM

WE ARE THE LARGEST DISTRIBUTOR OF FORGED WHEEL BLANKS IN THE WORLD.

**OVER 40
SIZES
TO CHOOSE**



2D • Hybrid • 3D

- LARGEST SELECTION OF SIZES - 16x3.5" TO 34"
- ROTORS, PULLEYS, SPROCKETS & HUBS
- VEE RUBBER & SHINKO TIRES
- FORGED FROM 6061-T6 SOLID ALUMINUM

- SHIP WORLDWIDE
- INCREDIBLE CUSTOMER SERVICE
- OVER 50 YEARS IN THE INDUSTRY
- OWNED BY MOTORCYCLE ENTHUSIAST



(562) 583-4580

MOTORCYCLE WHEEL BLANKS MADE IN THE U.S.A.

9830 MILLER WAY, SOUTH GATE, CA 90280 • EMAIL: SALES@MSIWHEELS.COM • WWW.MSIWHEELBLANKS.COM

LOW-PROFILE SOLO SEAT

FOR FL MODELS



- Seat covers the two seat fender studs for a low, clean look
- EZ-ON Mount system requires no tools for taking seat on and off
- Molded polyurethane foam interior for maximum comfort and styling
- Available in Double diamond stitch with black or silver thread
- Additional coverings, thread colors and stitch patterns are available through our custom seat program

DRAG
Specialties
seats

seats.dragspecialties.com



Manufactured by
Drag Specialties in the U.S.A.



M-8 Vented Dipstick

New from Oceanside, California based Feuling Parts, this new billet dipstick vents/breathes excessive crankcase pressure from the oil tank through a breather system consisting of a replaceable filter element and umbrella flapper valve.

Feuling vented dipsticks screw into the factory oil fill spout as a stock replacement part and remove the unwanted build-up of blow-by - found in engines with excessive leak-down through the rings/cylinders - a common issue with large displacement big bore engines.

Feuling test results show a decrease in engine oil sump levels, a more freely/smoothier revving engine, increased MPG and decreased blow-by. The company includes two venting options to choose from when installing the dipstick.

Option one is a quick-disconnect coupler fitting with rubber hose and filter element. This option will run any excessive oil misting/residue through the line and into the filter element. However, this option does require disconnecting the quick-disconnect fitting in order to check the oil. "We recommend routing the line up the frame rail, up under the seat/abs area, then back down along the right side frame rail, and the filter element can fit cleanly between the engine/trans matting area on the inside of the lower right frame rail."

Option two is a 1/8 NPT breather vent fitting with an internal porous filter element. This option gives a clean look, however, it can produce an oil misting/residue out of the element on engines with excessive leak-down/blow-by.

"It is important to get the correct hot oil level in your bike," says Feuling Parts CEO Luke Leatherman. "We recommend running the oil level 90%-99% full when hot. The oil pick-up port is on the right side of the engine. Letting the bike idle or warm up on the kickstand will naturally fill the engine case and skew the oil level in the tank.

"To achieve the proper oil level, we recommend taking these five easy steps. First, check cold oil level; then ride the bike until the desired operating temperature is reached; then shut the bike off while still in the upright position (this ensures an accurate



Option 1



Option 2

reading). Once the bike is on the kickstand, re-check the oil level and add or remove oil as needed and remember, our dipstick does get hot, so use a glove to check the oil level."



FEULING PARTS
Oceanside, California, USA
Tel: 619 917 6222
info@feulingparts.com
www.feulingparts.com



Rigid Baron II Two-Piece



Boutique seat maker Le Pera has never lost sight of heritage when it comes to the evolution of custom bike styling and the journey that consumer tastes have been on since the business was founded by Bob Le Pera Sr. back in 1972.

Bob Le Pera Jr. says that "for over 40 years Rigid seats have helped build and maintain our reputation as the 'go-to' for craftsmen seeking the finest craftsmanship in the seats they use, and in all that time our Rigid seats for choppers have never gone out of production."

"Available through our distributors in Button Pleats, the Rigid Baron II two-piece (also available in one-piece) is one of a range of era authentic designs that offer solutions for any chopper project or restoration."



Offered either as a low back or as a 14 inch tall version, it features a 9" wide seating area for the driver, with 6" width for the passenger (10" wide driver/6.75" wide on the Baron I one-piece). Still handcrafting all its seats at its North Hollywood, California headquarters after more than 45 years as the market's design leader, all Le Pera seats feature a powder-coated steel base plate, a specially poured high density "Marathon" molded foam foundation and double-stitched, handcrafted cover with bonded polyester thread for durability. The 2019 Le Pera catalog is available online - quantities of printed copies are available for dealers on request.

LE PERA ENTERPRISES
North Hollywood, California, USA
Tel: 818 767 5110
info@lepera.com
www.lepera.com



BSL EURO 4 EXHAUST SYSTEMS FOR M8 MODELS



ASK YOUR SALES REPRESENTATIVE FOR DETAILS



Check the Dealer Store!
custom-chrome-europe.com



MAGNUM

Complete Kits

Great Fitting *and* Matching
Cables & DOT Brake Lines for ABS &
non-ABS Harley-Davidson Applications

**RELY ON
THE EXPERTS**

**MADE IN
USA**

**DESIGNER
SERIES**

OR

**XR
SERIES**

**for QUALITY,
APPEARANCE
& FITMENT**

*Kits include either throttle + idle control cables or pre-terminated throttle-by-wire extensions, clutch cable or hydraulic clutch line, DOT brake lines, copper crush washers, hardware, and terminated turn signal & switch wiring extensions.

www.magnumshielding.com

**DRAG
Specialties**

The new DF series:
extremely small - extremely bright!

Kellermann



micro S DF Dark
Combination-
indicator-rear-brake light

Atto® DF
Combination-
indicator-rear-brake light

Rhombus S DF Dark
Combination-
indicator-rear-brake light

NEW

NEW

NEW



Made in Germany®
3 years warranty

Phone: 0049 (0) 241 938 0815 | From USA & Canada: 011 49 241 938 0815
Email: info@kellermann-online.com | Jülicher Straße 336 . 52070 Aachen . Germany

Ikon for Flat Trackers



Bedford, Pennsylvania based Ikon Suspension USA, the North American operation of the Australian suspension manufacturer, has responded to the growth in vintage off-road competitions, Flat Track racing in particular, with the introduction of a new line of Ikon 'FlatTrackers' suspension units for twin shock frames. Developed in collaboration with Bob 'Flat-Track' Cuthbertson of RC Racing Components, Independence, Oregon Ikon 'FlatTrackers' for twin shock frames come in lengths from 12"-14" in half inch increments with black powder coated body and spring for durability. Several sizes of mounting bushes and spring rates are available in linear and progressive designs. "It took a couple of seasons to fine tune the design

in terms of shock valving and spring rate. Then, at the beginning of the 2019 indoor Flat Track season at Salem OR, Skyler Gore (on the Ikon Suspension USA equipped RC Racing bike) started racking up the wins," said Roger Kirwin of Ikon Suspension USA. "That was the point when we knew we'd developed successful race winning suspension units," he added. Rebuildable and revalvable, these Flat Track specific 76 series shock absorbers are made as part of Ikon's 'Basix' range.

IKON SUSPENSION USA
Bedford, Pennsylvania, USA
Tel: 814 592 7003
hello@ikonamerica.com
www.ikonuspensionusa.com

Adjustable Gauge Mount

Huntington Beach, California based handlebar and accessory specialist Wild 1 Chubby has this new gauge mount for Street Bob and Breakout models. This new adjustable design bolts directly onto 1.25" diameter T-Bars as well as 1.25" diameter risers (risers must be at least 3.5" tall) while relocating the gauges "for perfect placement."

"With full adjustability the new mount not only allows you to utilize your gauges when switching to T-bars or risers and handlebar, they also add a clean badass look. Like all Wild 1 Chubby accessories, these gauge mounts are machined out of the highest quality T6 heat treated 6061 billet aircraft-grade aluminum and come in choice of show chrome, satin black powder coat, gloss black powder coat (gloss is only available direct) or raw finish. The mount is designed to fit the new '18-'19 Street Bob and Breakout models. All Wild 1 Inc's products are 100% manufactured in the USA since 1996.



WILD 1 INC.
Huntington Beach,
California, USA
Tel: 714-536-5869
info@wild1inc.com
www.wild1inc.com



GOOD GUYS II AIR CLEANER KIT FOR M8 MODELS



COVER OPTIONS



ASK YOUR SALES REPRESENTATIVE FOR DETAILS



Check the Dealer Store!
custom-chrome-europe.com



World's Finest Products For Harley-Davidsons

ANDREWS
HIGH PERFORMANCE CAMS & GEARS

MORE MUSCLE FOR YOUR
MILWAUKEE 8



M460

CAM SHOWS

12%

MORE TORQUE

AND **17%** MORE HP

OVER STOCK 107 CAMS

MORE GRINDS AVAILABLE

DYNO PROVEN DESIGNS

WWW.ANDREWSPRODUCTS.COM

847-759-0190

CONTACT US AT INFO@ANDREWSPRODUCTS.COM

QUALITY MATTERS. PERIOD.



A Small Selection Of Our New Products

© COPYRIGHT 2019



Performance Parts For Harley-Davidson® Motorcycles
555 Dawson Drive, Camarillo, CA 93012 • Phone 805-482-6913 • www.jimsusa.com



Kuryakyn's Prism+ LED 'EcoSystem' - Bluetooth-Controlled Accent Lighting



Somerset, Wisconsin based Kuryakyn says its new Prism+ LED is a modular "complete Bluetooth-controlled accent lighting system" that takes custom accent lighting "to another level to turn any ride into a rolling canvas of light."

The expandable network of high-output smart LEDs "amplifies style and safety with vibrant multi-colored illumination exactly where you want it - plus auxiliary run, brake and turn signal functionality to boost on-road awareness."

Prism+ Core, Impact and Pro LED light kits are said to offer all-inclusive accent lighting experiences for any motorcycle or vehicle operating via a 12V DC battery. The expandable Prism+ LED network also includes additional vehicle-mounted light accessories, headlights and passing lamps "that create a fully panoramic smart system all powered by the four-channel Prism+ Bluetooth controller."

"The four independently controlled zones (two front, two rear) offer maximum coverage and control of the vehicle's lighting. The four zones create one of the most robust and highly customizable accent lighting systems available, all controlled by the feature-packed Prism+ app."

"Through the app users can program millions of one-touch color options and utilize any of the four pre-set displays including "Ride" mode, which designates the front zones as static amber and the rear zones as static red auxiliary running lights. Other functional on-road features, like optional complementary brake and rear turn signal lighting, help significantly enhance visibility toward other motorists (brake/turn integration available on select models).



"Additionally, the Prism+ app features an integrated battery voltage monitor with automatic shut-off to prevent over-consumption. The app also allows users to create and save custom display modes, bring sound to life with music-sync mode, easily match any color via camera recognition and much more."

The Prism+ system also includes all-new Orbit Prism+ 7" and 5-3/4" LED headlights and 4-1/2" passing lamps. Overall rider vision is significantly enhanced from the high-output projection-styled LEDs, while integrated Bluetooth-controlled, multi-colored halos sync with the rest of the Prism+ network for an additional burst of style.

Plug & play installation with convenient "daisy chain" connectors allows easy expansion with additional Prism+ pods or 4" and 8" flex-strip lights. Users can also add the Prism+ roulette wheel, a two-piece clamp with 16 ultra-bright LEDs designed to mount around the front axle spacer on most Harley-Davidson models, or the Prism+ flare lights that feature a flexible steel mounting bracket for pinpointing illumination wherever you want it."

All Prism+ components feature durable IP67-rated, sealed, waterproof housings and connectors for safe operation in any riding environment.

KURYAKYN
Somerset, Wisconsin, USA
Tel: 715 247 5008
salesupport@kuryakyn.com
www.kuryakyn.com



BILLET WHEELS FOR M8 MODELS

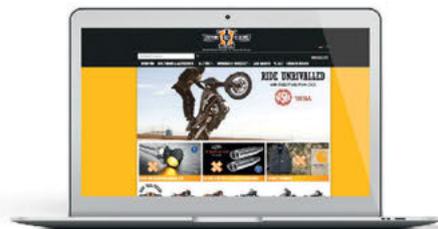


CUSTOM CHROME EXCLUSIVE

TÜV APPROVED CCE



ASK YOUR SALES REPRESENTATIVE FOR DETAILS



Check the Dealer Store!
custom-chrome-europe.com



W&W Additions

S&S SH74-Series Early Shovelhead Style Engines



The legendary early Shovelhead generator engine was made by the Motor Company for four years only, from 1966-1969, and today it's a rare bird. This version by S&S with stock 74 cubic inches combines authentic retro style with today's technology for thousands of trouble-free miles. It is fully assembled with the best components S&S has to offer, so factory specs are at least met and, in most cases, exceeded. This includes the bulletproof steel flywheels, reinforced connecting rods, billet oil pump, billet rocker boxes and roller rocker arms.

The installed S&S 513G cam provides higher lift and increased valve timing for better performance. SH74 early Shovelhead engines come without intake manifold, carburetor and ignition, so you can choose whatever seems appropriate for your needs. Crankcases, cylinder heads and the gear cover have a cast finish, cylinders are black powder-coated, and the rocker boxes are polished. Top end oiling is provided through the pushrods, which makes external oil lines obsolete. The stroke is 3-31/32", nominal bore is 3-7/16", compression is 7.5:1.

The Cyclery Clutch and Brake Pedal Pads

These individually sold variations of the accessory



clutch and brake pedal pads (with a The Cyclery logo embossed into the contact surface) are 1/2" thick restoration quality in steel and rubber and fit all models with foot clutch and mechanical brake (nut and washers supplied). They are available for 93 mm wide x 68 mm high or 63 mm wide x 68 mm high clutch pedal/brake pedal.

Hammer Sycle Dual Linkert Manifold



What is better than a Linkert carb? Exactly, two Linkert carbs, and this custom manifold allows for an easy installation. It is like stock at the cylinder head end for big port plumber fittings, but then spreads like a V to accept two 4-bolt Linkert carbs. It fits Knuckleheads 1940-1947 and has an 85.5 mm center-to-center hole, but will not fit Panhead engines without major alterations of cooling fins on cylinder heads. Made in Japan in cast aluminum with a 'tumbled' finish.

W&W CYCLES AG
Wuerzburg, GERMANY
Tel: +49 (0)931 250 61 16
sales@wwag.com
www.wwag.com

50-State EPA Emissions Compliant RCX Slip-Ons



These RCX 4.0" and 4.5" slip-on mufflers for H-D Touring models by RC Components of Bowling Green, Kentucky are emissions compliant in all 50 states and conform to the emissions guidelines defined by the Air Resources Board of the State of California (CARB) and EPA federal regulations. Available for selected carbureted and fuel injected FL Touring models from Evo (1995) up to M-8 (including 2019), RC Components says that the results of confirmatory testing in an independent emissions laboratory that is recognized by CARB and the EPA "conclude that the installation of RCX Exhaust 4.0" Slip-on Mufflers and RCX Exhaust 4" Slip-on Mufflers on the appropriate applications do not tamper with the OEM catalytic converter, and so meet the guidelines as an emissions replacement part defined by CARB and the EPA."

The 40" mufflers are available in 11 styles, the 4.5" in five, all in choice of finishes with ten end cap options. They offer what the company describes as "an incredibly deep and smooth exhaust tone," and are available in a choice of chrome or rich ceramic black finish. They are made in the U.S.A and are sold with a lifetime structural warranty.

RC COMPONENTS
Bowling Green, Kentucky, USA
Tel: 270 842 6000
rcc@rccomponents.com
www.rccomponents.com



WATERPROOF ENTERTAINMENT SYSTEMS
FOR HARLEY-DAVIDSON MOTORCYCLES®
WWW.AQUATICAV.COM/HARLEY

AQUATIC AV®
products with a watertight reputation

HARDTAIL FRAMES 1936-1957

Classic & Custom Frames · Restoration & Building
 Trikes & Projects · Welding, Cutting & Redesign

Flathead '36-'47 // Bullneck '46-'47 // Knucklehead // Panhead '48-'57 // Sportster '80-'03

② Trike Frames & Axles • Frame Parts • Oil Tanks • Restoration • Custom Frames



Flathead / Knucklehead

Panhead 1949-51

THE QUALITY OF OUR FRAMES

All our frames have an TÜV approval. They are constructed from seamless thick wall tubing while the castings we use bear the authentic numbering and can be welded without loss of ductility, strength and stiffness.

STANDARD HARDTAIL FRAMES

We supply the standard Harley frames of the eleven different models from 1936 to 1957, Knucklehead and Panhead. You can find them on our website by year of construction.

VG MOTORCYCLE

For more than 30 years VG motorcycle has been producing the highest quality frames for Harley Davidson. VG motorcycle produces Hardtail, Swingarm or Softtail frames for all models from 1936 to 2016.

STANDARD AND CUSTOM FRAMES

Standard frames are easy to order from our website by make. Do you prefer a custom made frame? We can construct frames to suit your every requirement. If you like to keep your old frame, it is also possible for us to restore it for you.



VG MOTORCYCLE
 The Netherlands
 tel: +31 (0) 630 493 201



KICKFLIP

Wicked Fun



Le Pera
 SINCE 1972
 Made in the USA • www.lepera.com

Dyna pictured with "Pleated" style.
 FXR pictured with "Gripp Tape" style.
 Bagger pictured with "Diamond" style.
 Sportster pictured with "Basket Weave" style.
 All 4 production styles available for all 4 models.

4 Bikes TO CHOOSE FROM. **4 Styles** TO CHOOSE FROM.

Dealers: Call for info 877.442.5837 or
Email: sales@RenegadeWheels.com

**HHI/Renegade
Wheels proudly
delivers premium
quality, uniquely
designed wheels
& accessories
manufactured in the
US to our exacting
standards.**



NEW!
Lincoln 21" and 23" x 5.5"
Front Wide Tire Wheels
available in Black, Chrome,
and Phantom Cut.



Matching Floating Brake Rotors in 11.5",
11.8", 13", and 18", Pulleys, Sprockets,
Air Cleaners, Derby Covers, & more



Motorcycle lighting modules since 1990.

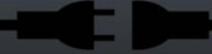
- ▶ Illuminator Modules
- ▶ Intensifier Modules
- ▶ Isolator Modules
- ▶ Load Equalizers



- ▶ Self Canceling Modules
- ▶ Illuminator PRO-III Modules
- ▶ CAN/Bus Lighting Modules
- ▶ Victory Motorcycle Illuminators
- ▶ American V-Twin & Metric



PLUG-N-PLAY!



www.badlandsmotorcycleproducts.com

Stay ahead with our Curves...



Just one of MANY
different combinations...

#1 Rated
Starters!



Tornado Starters
Available for all
H-D Models

*Motorplates can be
supplied with a 2" or 3"
Cyclone Primary Drive



'07-Up Contoured
Motorplate



Panhead Electric
Start Kit - Keep
your stock tins
and trans

WWW.TECHCYCLE.COM
215.702.8324

FOLLOW US ON

INSTAGRAM @TECHCYCLEPERFORMANCE
 TWITTER @TECHCYCLE1

All your needs for your builds!



The easiest and safest way to deal across the atlantic!

www.mag-connection.com - info@mag-connection.com

CC: 06/2018 - +33 (0)4 73 94 84 02 - Billo : Green Greater ... courtesy of Greg Kustom's France - Pics : Fabrice Berry - Freeway Magazine

Optimate

tecMATE

www.tecmate.com

Multi-lingual catalogs :
tecmate.com/cat

Global distributors :
tecmate.com/distributors

Email (sales / service / technical):
tecmate.com/contact

SALES OFFICES

EUROPE, UK & Rest of the World
(for regions not listed below)

**TecMate (International)
S.A., Belgium**
Tel: +32-16-805440

North, Central and
South America

**TecMate North America,
Canada**
CAN : +1-905-3372095
USA : +1-541-6399800

Africa, Australia, New Zealand,
Southern Asia

**TecMate South Africa,
South Africa**
Tel: +27-21-5316045



**INTERNATIONAL
HEAD OFFICE**

THE NETHERLANDS

ZODIAC INTERNATIONAL B.V.
Tel: 0031 (0)297 288621
Email: sales@zodiac.nl

AUSTRALIA

CASSONS PTY. LTD.
TEL: +61 28882 1900
Email: enquiries@cassons.com.au

AUSTRIA

ZODIAC ÖSTERREICH
TEL: +43 67 64 86 40 65
Email: zodiac-oesterreich@zodiac.nl

FRANCE

ZODIAC FRANCE
Tel: 01 45 93 10 75
Email: zodiacfrance@zodiac.nl

FC PARTS

Tel: 03 27 85 57 15
Email: fcparts@wanadoo.fr

GERMANY

ZODIAC DEUTSCHLAND
Tel: 02137 78740
Email: zodiac-deutschland@zodiac.nl

GREAT BRITAIN

ZODIAC U.K.
Tel: 01453 882 917
Email: zodiac-uk@zodiac.nl

HUNGARY

ZODIAC MOTORCYCLE
PRODUCTS HUNGARY
Tel: 06 30 217 1832
Email: zodiac-hungary@zodiac.nl

ITALY

ZODIAC ITALIA
Tel: 3426 561527
Email: zodiac-italia@zodiac.nl

SCANDINAVIA

ZODIAC SCANDINAVIA
Tel: +46 (0)70-518 14 62
Email: scandinavia@zodiac.nl

SPAIN

ZODIAC ESPANA
Tel: 663 86 81 44
Email: spain@zodiac.nl

SWITZERLAND

AMERICAN BIKE SHOP
Tel: 071 761 2678
Email: abs-zodiac@rheintal.ch

www.zodiac.nl

**RICK'S
MOTORSPORT
ELECTRICS**



- ✓ New Made In USA H-D Regulators from Rick's Motorsport Electrics
- ✓ One year replacement warranty 
- ✓ Available direct or through Drag Specialties



Ricksmotorsportelectrics.com
info@rickselectrics.com
1-800-521-0277

MOTORCYCLE STOREHOUSE

MOTORCYCLE STOREHOUSE B.V.

Gotenburgweg 46, 9723 TM Groningen, The Netherlands
Tel: +31 (0)50 303 9775 - Email: sales@mcseurope.nl

MOTORCYCLE STOREHOUSE LTD.

Unit 2 Oakden Drive, Manchester, M34 2QN, UK
Tel: +44 (0)161 337 4390 - Email: sales@mcseurope.uk

**INTERNATIONAL
SALES OFFICES**

MCS SPANISH AGENT

Paloma Pinto
Tel: +34 0 93 865 7427
E-mail: paloma@mcseurope.nl

MCS FRENCH AGENT

Bruno Selle
Tel: +33 (0)4 90 67 76 33
E-mail: bruno@mcseurope.nl

MCS GERMAN AGENT

Rasi Bayazid
Tel: +49 (0)211 289 0538
E-mail: rasi@mcseurope.nl

MCS ITALIAN AGENT

Marcello Fontana
Tel: +39 0445 390437
E-mail: marcello@mcseurope.nl

MOTORCYCLESTOREHOUSE.COM



**DISTRIBUTOR LIST
DEALERS ONLY**

GERMANY
CUSTOM CHROME EUROPE
 Tel: 49-0-6721-4007-1425 // custom-chrome-europe.com
W&W CYCLES AG
 Tel: 49-0-931-250-6750 // www.wwag.com
DRAG SPECIALTIES
 Tel: 49-6501-96-95-1010 // www.partseurope.eu

NETHERLANDS
MOTORCYCLE STOREHOUSE BV
 Tel: 31-50-303-9770 // www.motorcyclystorehouse.nl
ZODIAC ENTERPRISES LTD
 31-29-728-4921 // www.zodiac.nl

AUSTRALIA - QUEENSLAND
ROLLIES SPEED SHOP
 Tel: 61-0732525381 // www.rollies.com.au

NEW ZEALAND - AUCKLAND
PERFORMANCE CYCLE WHOLESALE LTD
 Tel: 64-9-308-1634 // www.performancecycle.co.nz

**UNITED ENGINE & MACHINE
WWW.UEMPISTONS.COM**



THE ULTIMATE CUSTOM HANDLEBARS



GET A GRIP



**THE HIGHEST QUALITY
HANDLEBARS 100% MADE
IN THE U.S. SINCE '96
CHUBBYHANDLEBARS.COM
(714) 536-5869**



DISTRIBUTOR NETWORK

<p>Australia Rollie's Speed Shop Tel: 07 3252 2129 Serco Pty Ltd Tel: 07 382 3283 3</p>	<p>Canada Power Twins Tel: 403 250 6611 Parts Canada Tel: 877-277-7560</p>	<p>Netherlands Motorcycle Storehouse BV Tel: 0031 (0)50 303 9771 Zodiac International Tel: 0031 (0)297 28 86 21</p>
<p>Germany Custom Chrome Europe Tel: 0049 (0)671 88888 0 Parts Europe Tel: 0049 (0)6501 9695-2000 W & W Cycles Tel: 0049 (0)931 2506115</p>	<p>New Zealand Performance Cycle Wholesale Tel: 0064 (0)9 308 1625</p>	<p>USA Tucker V-Twin Tel: (800) 347 8080 Drag Specialties Tel: (800) 222 3400</p>

www.barnettclutches.com

**OCTOBER
7-11 2020**



**COLOGNE
GERMANY**

**INTERMOT
CUSTOMIZED**

Handlebars - Protection Guards - Luggage Carriers - Chrome 'n parts

MOTORCYCLE ACCESSORIES





Ernst Fehling GmbH & Co. Metallwarenfabrik
 Mendener Straße 1 · 58739 Wickede (Ruhr) - Germany
 Fon. +49 (0) 23 77 - 20 33 · Fax +49 (0) 23 77 - 16 35 · eMail info@fehling.de

TRADE ZONE

For more information on TRADEZone advertising contact Sara Viney - sara@dealer-world.com

THIS MONTH'S ADVERTISERS

AIM Corp (US) Clutches & gear kits	64
AirFX USA (US) Air suspension kits	17
Andrews Products (US) High performance cams and gears	54
Aquatic (US) Waterproof entertainment systems for H-D.....	56
Arlen Ness Enterprises (US) Parts & accessories.....	5,31
Arnott Air Suspension (US) Ultimate ride series	45
Avon Tyres (GB) Cobra Chrome tyres	63
Badlands Motorcycle Products (US) Illuminator modules.....	58
Bandit Machine Works (US) Drives and clutches.....	46
Barnett Clutches & Cables (US) Performance products for Indians.....	24
Biltwell (US) Gringo helmets	15
Bitubo (IT) Harley suspensions	4
Custom Chrome Europe (DE) Parts & accessories	51,53,55
Darkhorse Crankworks (US) Crank assembly balancing & rebuilds	44
Dock66 Motorcycle Parts (DE) Front & rear fenders	37
DP Brakes and Clutches North America (US) Brakes & clutches	30
Drag Specialties (US) Low-profile solo seat for FL models	50
Drag Specialties (US) Quality ignition products.....	9
Energy One Clutches (US) Performance clutches.....	36
Fehling (DE) Parts & accessories.....	61
Feuling Parts (US) Bulletproof camchest kits.....	30
Hawg Halters Inc (US) Calipers, triple trees, foward controls & air suspension kits.....	23
HHI / Renegade Custom Motorcycle Wheels (US) Wheels	58
JIMS (US) Milwaukee-Eight tools	54
Kellermann (DE) DF series combination indicator and rear break light.....	52
Kustom Tech (IT) Parts & accessories	48
Le Pera Enterprises (US) Seats	57
Letric Lighting (US) Motorcycle lighting	24
MAG Connection (FR) TBR exhausts, Distributor	43,59
Magnum Shielding (US) Complete cable kits	52
Memphis Shades (US) Spoiler windshield with hand guards and wind deflectors.....	36
Mid-USA Motorcycle Parts (US) Parts & accessories	25
Midwest Motorcycle Supply (US) Ultima products.....	10
Motorcycle Storehouse (NL) Distributor, International Sales Offices.....	38-39,60
MSI (US) Forged aluminum wheel blanks	49
NAMZ Custom Cycle Products (US) Wiring harnesses & fluid lines	30
National Cycle (US) Windshields & accessories	29
Parts Europe (DE) Brake rotors.....	29
Pingel Enterprise (US) Parts and accessories.....	45
Platinum Air Suspension (US) Suspension options.....	49
Rick's Motorsport Electrics (US) Starters, chargers & ignitions.....	60
S&S Cycle (US) Grand National 2:2 high exhaust and slip-on muffler	2
SBS Friction (DK) SBS brake pads	26
Surflax (IT) Clutches for Harley-Davidson	19
Tech Cycle Performance Products (US) Belt drives & starters	58
TecMate International (BE) OptiMate Solar - 24-7 battery status	47
Tucker Powersports (US) Twin Power Shocker AGM battery	20
Tucker Powersports (US) House of Brands	35
United Engine & Machine (US) KB Super Duty M8 piston series	47
Vance & Hines (US) Dyna stainless upsweep 2-1	6-7
VG Motorcycle (NL) Classic and restoration frames.....	57
Western Power Sports (US) HardDrive products	11
Wild 1 (US) Custom handlebars.....	61
Zodiac International (Europe) (NL) Parts & accessories, European offices	13,61

THIS MONTH'S EDITORIAL ITEMS

AIMExpo/MIC Events (US) Dealer seminars.....	22
AIMExpo/MIC Events (US) Cycle Volta E-Pavilion	64
AMA (US) Opposes tariffs on EU motorcycles and P&A.....	22
American Flat Track (US) Buffalo Chip TT, Black Hills, Sacramento, Peoria	8

ANCMA (IT) NewsBrief: Italian July registrations	14
ANESDOR (ES) NewsBrief: Spanish motorcycle registrations to July.....	27
Arge2Rad (AT) NewsBrief: Q2 motorcycle registrations	28
Baker Drivetrain (US) Stock replacement DD5	39
Barnett Clutches & Cables (US) Scorpion Series addition.....	34
Biltwell (US) AlumiCore grips	40
Brembo (IT) NewsBrief: Half year revenues	28
C&S Custom Cycles (US) Hoglite swingarm for Baggers	42
Ciro (US) 'Shock & Awe' 2.0 lighting available through Zodiac	37
Custom Chrome Europe (DE) PM rocker box covers; BOAR program.....	46
Custom Dynamics (US) LED Adaptive headlamps, halo fog lights and vent inserts.....	40
Denali Electronics (US) CANsmart accessory controller	38
Dock66 Motorcycle Parts (DE) Springer style E-Mark headlamp	34
Drag Specialties (US) RWD TXR fairing kit.....	41
Drag Specialties (US) Product additions	44
FCAI (AU) NewsBrief: Australian motorcycle registrations	27
FEMA (BE) NewsBrief: Patron of International Conference of Road Safety.....	19
Feuling Parts (US) M-8 vented dipstick	51
Hamsters (US) NewsBrief: Raises \$318k during Sturgis Rally	22
Harley-Davidson (US) Model Year 2020	1,12-18
Harley-Davidson (US) NewsBrief: Class action lawsuit for defective braking system	21
Harley-Davidson (US) NewsBriefs: German market share, limited edition accessories	64
Heartland USA (US) FXDR license plate relocation kit	41
Hyperpro Sales (NL) Suspension springs available through Zodiac.....	37
Ikon Suspension (AU) Suspension for Flat Trackers	53
Indian Motorcycle Company (US) NewsBrief: German market share	64
IVM Industrie-Verband Motorrad (DE) NewsBrief: German market registrations	19
JAMA (JP) NewsBrief: Japanese motorcycle exports	21
JIMS (US) M-8 balancer bearing installer	42
Kraus Motor (US) ERG and Pro-Line accessories	41
Kuryakyn USA (US) Prism+ LED 'EcoSystem' lighting	55
Le Pera Enterprises (US) Rigid Baron II seat.....	51
MCIA (GB) NewsBrief: UK July motorcycle registrations	21
McRF (SE) NewsBrief: Swedish motorcycle registrations to July.....	27
Mid-USA Motorcycle Parts (US) V-Factor piston kits	48
Midwest Motorcycle Supply (US) Feature: Ultima machine shop services	32-33
MIVV (IT) 'No-Kat' headers for Touring	40
Motorcycle Industry Council (MIC) (US) Strategic plan to attract new riders	27
Motosuisse (CH) NewsBrief: Swiss motorcycle registrations	22
MV Agusta Motor (IT) China deal with Loncin Motor Co.....	19
Performance Machine (US) Rocker box covers available through CCE	46
Polaris Industries (US) NewsBrief: Quarterly dividend	14
Polaris Industries (US) Half year results	21
Polaris Industries Inc (US) NewsBrief: "Think Outside" corporate branding	22
PZPM (PL) NewsBrief: July motorcycle registrations.....	28
RC Components (US) RCX slip-ons for H-D Touring models	56
Rinehart Racing (US) Emissions-compliant full system.....	48
Rizoma (IT) Accessories for XL 48	42
Russ Wernimont Designs (US) TXR fairing kit available through Drag Specialties.....	41
S&S Cycle (US) Grand National 2:2 for Softail	34
S&S Cycle (US) SH74-Series engines available through W&W Cycles.....	56
Santa Fe Harley-Davidson (US) NewsBrief: Takes on KTM off-road franchise	64
See See Motor Coffee Co (US) Customized Indian	28
TAB Performance (US) BAM sticks with Zombie baffles.....	41
Tedd Cycle (US) Derby cover	42
Two Brothers Racing (US) Comp-S for XG750 available through Zodiac	37
W&W Cycles (DE) Product additions	56
Wild 1 (US) Adjustable gauge mount	53
Worldwide Dynamics (US) Cherokee Blue Ridge AMD qualifier	64
Zero Motorcycles (US) Returning AIMExpo exhibitor	27
Zodiac International (Europe) (NL) 'Da Hooligan' project bike	28
Zodiac International (Europe) (NL) Product additions	37



ON ROAD. ON TRACK. **ON AVONS.**



ESTABLISHED 1885



NEWS BRIEFS

Harley was in 6th place in Germany in market share terms for the first six months of 2019 with 6,533 units sold for an 8.68% market share. Its top seller (in 21st place) was the Street Bob (716 units sold), followed by the Sports Glide, Breakout 114 and XL 1200X.



Harley has two limited edition 'early-announced' 2020 accessories available. Designed by "renowned Harley-Davidson stylists and handpainted by skilled artists - two brand-new 2020 Harley-Davidson Limited Paint Sets that allow riders to express their personality and stand out from the crowd with their bikes". The 'Quick Shift' Limited Paint Set "was designed for the performance junkie in mind." Each set includes a fuel tank, front fender and rear fender. Fits '18-later Breakout and Fat Bob models. Only 100 sets will be offered worldwide; each comes with a handwritten certificate of authenticity.



Santa Fe H-D became the latest authorized Harley dealership to look to its future and to how it can attract new customers and new styles of riders when it took on the Northern New Mexico KTM off-road motorcycle franchise.

Indian Motorcycle were in 14th place in market share terms in Germany for the first six months of 2019 with 658 units sold YTD for a 0.87% market share. Royal Enfield were 12th, selling 880 units YTD for a 1.17% share.

2019 Cherokee Blue Ridge/AMD Qualifier Custom Bike Show

Cherokee, North Carolina - September 6th - 8th 2019



By Bob Kay



The Cherokee Blue Ridge/AMD Qualifier custom bike show is back at the Cherokee Fairgrounds in Cherokee, North Carolina again this year. This year's entertainment line-up will feature great bands, DIY demos on the Grease and Gears Stage, dare devils of all types, flat track racing and some of the finest riding in the country on the Blue Ridge Parkway. There will be more than one bike show - from the AMD World Championship Qualifier to daily ride-in shows.

The winner of the AMD Freestyle class in 2018 was Tim Dixon and he, along with Larry Moore, will be headed for the 2020 AMD World Championship at INTERMOT Customized in Cologne, Germany, (October 2020) to represent Team USA and compete for that illusive number 1 custom bike builder world champion prize.

The 2019 Cherokee Blue Ridge/AMD winner will be the third member of Team USA, with a possibility of four builders going to Germany in 2020. Anything goes in the AMD Avon

Freestyle class - qualified bikes will have a two or three-wheel drivetrain/chassis motorcycle configuration as defined by the DMV. The only limitation is the builder's imagination and resources. This is the class for those who want the chance for the opportunity to compete in the AMD World Championship in Cologne, Germany.

It is the direct path to the AMD World Championship of Custom Bike Building finals and a chance to challenge the best builders in the world. The Blue Ridge/AMD Qualifier winner gets \$2,000 cash on site, plus another \$8,000 for expenses when they show at the 2020 AMD World Championship of Custom Bike Building. There will also be trophies to 5th place and for the winners of the Custom Street and Custom Classic class.

Some of the other bike shows include the Perewitz Custom Paint Show, the Cycle Source Ride-In Show and Southern Bikers' Ladies Ride-In Show. The Antique Motorcycle Club of America will hold a vintage gathering

and a KickStart Ride. Check the website - blueridgerun.com - for all the bands that will be presented by Jay Allen, the master of ceremonies. Of course, the American Motor Drome will be back, cruising the death defying walls of wood. The Fearless Flores Thrill Show, Teach McNeil, Adam Holbrook and Circus Una round out the entertainment - not to forget flat track racing will be coming back at nearby Riverside Park. If you like to play all night, Harrah's Casino Resort just happens to be around the corner.

We are expecting a great turnout, and if the interest from the builder community is any kind of an indicator, it is going to be a great weekend. We have builders from Massachusetts, New York, Florida and all up and down the east coast. It is such a pleasure to work with Mark, Yvonne, Kevin and the whole Cherokee nation team, this has truly become one of my favorite rallies. www.blueridgerun.com

AIMExpo E-Pavilion

Bonnier Motorcycle Group and the MIC have teamed up to create the Cycle Volta E-Pavilion, a dedicated area at AIMExpo presented by Nationwide for all electric two-wheelers, from bicycles to motorcycles. Cycle Volta is Bonnier's recently

established media brand, and in conjunction with AIMExpo's three newly-minted neighborhoods (The Shop, The Alley and The Camp) will showcase the culture, lifestyle and experiences that affect users' buying decisions through major market segments.

The Cycle Volta pavilion will feature vendor booths, test rides and TED-style talks on how e-bike riders can become new motorcycle enthusiasts. Media and industry dignitaries are also invited to an exciting after-hours e-bike dirt race on Friday, September 27, hosted by Bonnier Motorcycle Group and AIMExpo.

40%
REDUCTION IN CLUTCH LEVER EFFORT

IMPROVED MODULATION



LIGHT FORCE
LF002 FOR 2017+ HYDRAULIC M8 MODELS

★ **NOW AVAILABLE**
FOR 2017+ TOURING

LF + VP-SDR COMBO KIT
LFK004

PERFORMANCE & COMFORT ALL IN ONE PACKAGE!

VP-SDR
Variable Pressure Clutches

'13 AND LATER A&S CLUTCH, 3 STUD STYLE CLUTCH



VP036-SDR

OPTIONAL PERFORMANCE SPRING KIT SHOWN

visit us www.aim-tamachi.com

Sources: AMD, IDN, FT, Reuters, PSB, MPN, B88, BDN, MCN, AP, Bloomberg, MSNW, Electrek