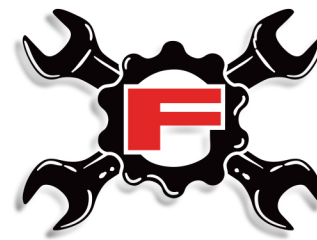


# W3 ENGINE SPECS

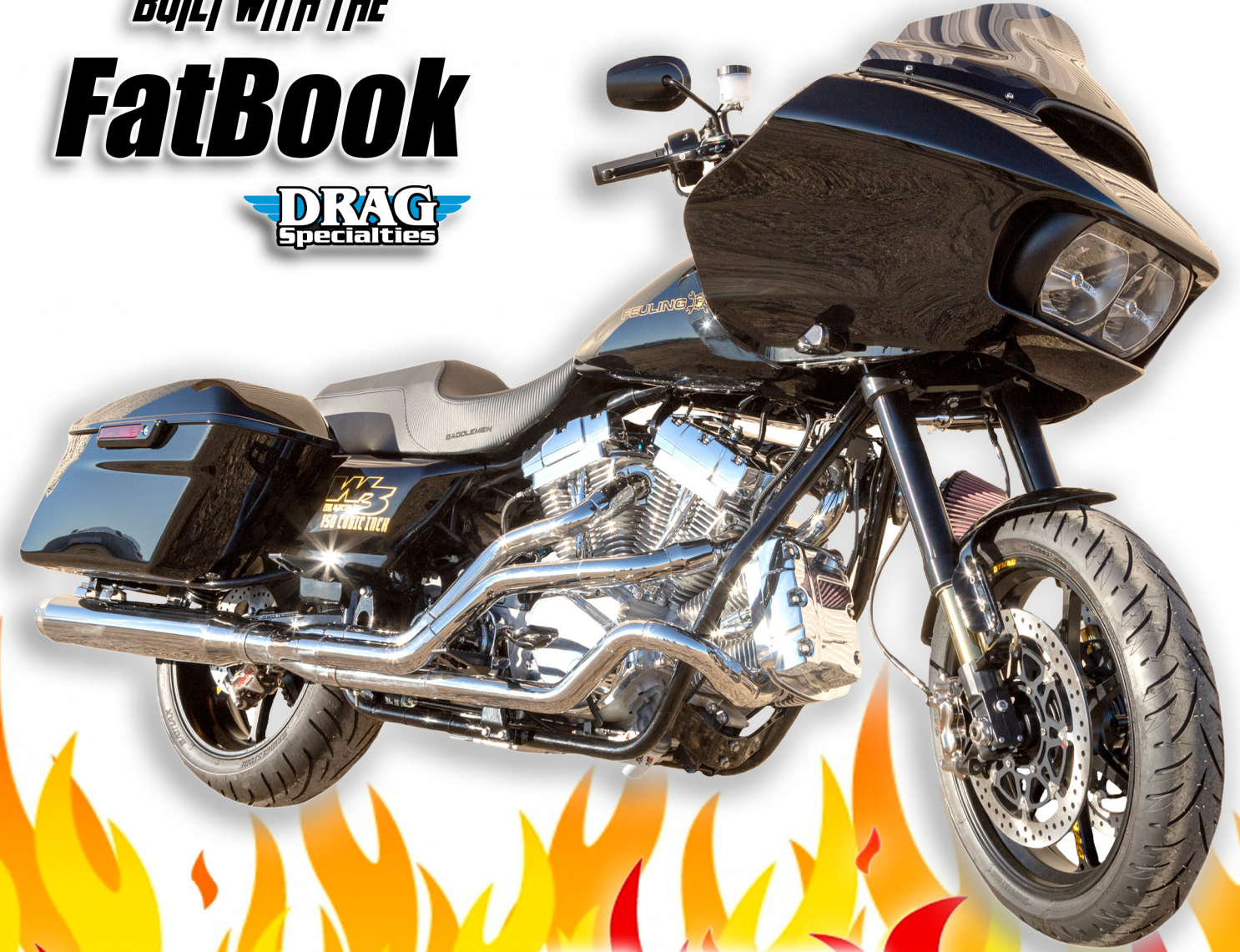


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Configuration.....	3-cylinder, air cooled 45°x 45° W layout	Breathers.....	Feuling rocker box breathers and external head breathers
Valve Train.....	OHV 2 valves per cylinder	Camshafts.....	Feuling 594 grind, Lift: Int 594"/ Exh 604", Dur Int 255/Exh 260
Bore.....	4.0 in.	Camplate.....	Feuling HighFlow
Stroke.....	4.0 in.	Cam Drive.....	Andrews Cam gears, outer front & rear cam gears + crank gear
Displacement.....	150 cu. in., 2.5L	Oil Pump.....	Feuling RACE SERIES
Compression Ratio.....	10.8:1	Pistons.....	KB Forged/Coated
Horsepower.....	180 @ 5500 RPM	Pushrods.....	Feuling HP+ One piece 0.165" wall thickness
Torque.....	200 lbs. ft. @ 3000 RPM	Lifters.....	Feuling RACE SERIES, full travel
Firing Order.....	1 - 3 - 2, using rear cylinder as #1	Exhaust System.....	Feuling Anti-Reversion 3 into 1, triple stepped
Firing Impulses.....	90 degrees, 315 degrees, 315 degrees	Intake System.....	Feuling Fuel Injected 1into3 log manifold, Feuling 5.3 g/s injectors, HPI 64mm throttle body
Cases.....	Feuling W3 - A356T6 Cast Aluminum	Ignition.....	Motec/Feuling
Crankshaft.....	Modified HD Twin Cam, clearanced and balanced for Feuling Master/Link rod, HD bearings	Coils.....	Feuling
Connecting Rod.....	Forged 4340 Chromoly Steel (Feuling Master/Link Design)	Spark Plugs.....	NGK 10 mm JR8C
Heads.....	Feuling 2 Valve with patented HIGH VELOCITY Ports	Lubricants.....	Valvoline: Engine VR1 20W50, Primary Type F, Trans 80-90 weight
Valves.....	Feuling wide margin 2.000 intake, 1.500 exhaust	Frame.....	Feuling frame with 30 degree Steering Head Angle
Valvesprings.....	Feuling Beehive Highload W/Ti retainers & locks		



BUILT WITH THE  
**FatBook**  
DRAG Specialties



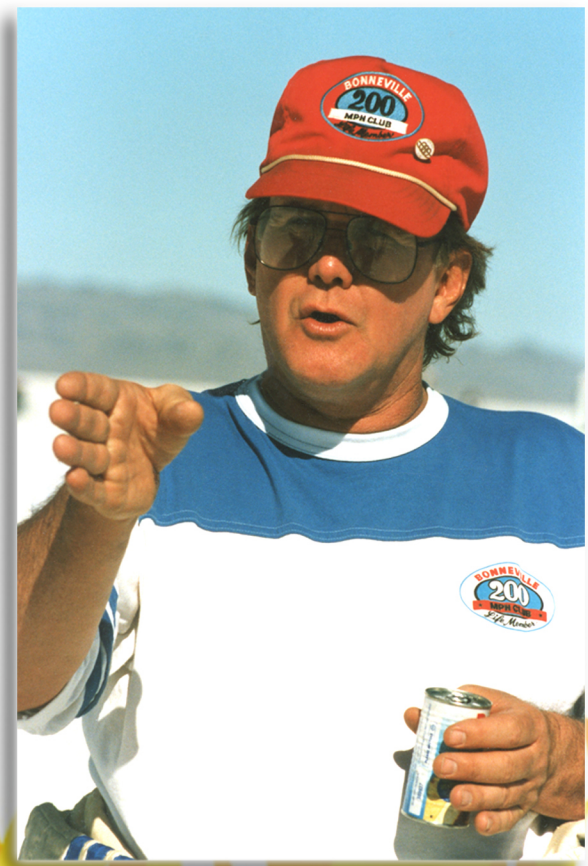
## HISTORY

Jim Feuling founded Feuling R&D/Advanced Technologies in 1974. Jim was an inventor, author, publisher, philosopher, pilot, motorcycle and automobile designer/builder/racer and leading-edge researcher/developer in the field of engine design and fluid dynamics. Jim passed away in 2002 after a battle with pancreatic cancer, the business today still proudly bears the Feuling name.

Jim was years ahead of his time, Feuling technology is still widely used on production vehicles today. Jim served in the United States Army Special Forces. He was awarded the prestigious SCORE "Mechanic of the Year" trophy. His racing engines, high performance components and inventions have been used worldwide, from Daytona to Monaco, from off-road racing to Bonneville to Formula One Grand Prix and the Indy 500.

Feuling's leading-edge development work includes R&D contracts and licensing with the likes of Chevrolet, Oldsmobile, Ford, Chrysler, Mazda, Nissan, John Deere, Harley-Davidson, Bell Sports, Shoei, Edelbrock and aircraft companies such as Cessna, Mooney and Quickie. In 1988 Jim received the "Outstanding Technical Achievement Award" from the National Engineering Societies for his "clean sheet" design, development and manufacture of the 2.0L "BE" Quad-4 racing engine used in the Oldsmobile Aerotech Research Vehicle (267,339 mph 'the world record for the flying mile', driven by A.J. Foyt). The radical BE 4-cylinder, 4 valve engine developed the highest specific power output of any automotive engine in history, 10+ hp per cubic inch (over 1,270 hp from 121 cubic inches). The "BE" project lead to the development of the Aurora V8 Indy engine, and the platform for the Cadillac Northstar engine.

Feuling Technologies is home to the CENTERFIRE, MAX FLOW and Harley 4 valve cylinder heads, AR Anti-Reversion exhaust system, CVX muffler and the high efficiency Three-Valve Combustion Chamber System. Feuling holds and has held multiple land speed records including a spot on the world's fastest motorcycle list (332.103 mph) and world's fastest fuel streamliner (344.114 mph). With decades of experience in automotive, motorcycle and aviation design and development the staff at Feuling® is second to none.



JIM FEULING

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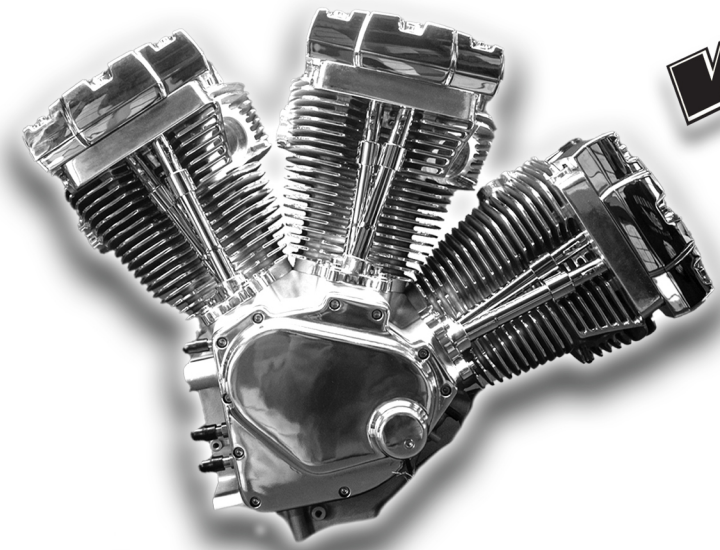


FEUL INJECTED  
**150 CUBIC INCH**



**W3**

The W3® is a three cylinder W configuration engine. Air cooled, two-valve, triple gear driven cam, with a 4" bore and 4" stroke creating a 150 cubic inch monster. The engine is based on the Harley Twin Cam engine with majority of it's components interchangeable. The W3 uses its cubic inch to create the power thus keeping the package very reliable. The three-cylinder arrangement provides inherent smoothness firing at 90 degrees, and the low center of gravity is perfect for motorcycles.



**TWIN CAM BASED ENGINE**



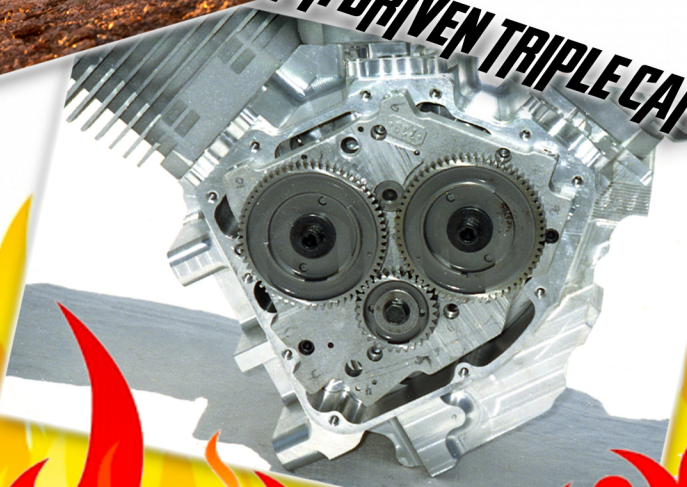
**FUEL INJECTED**



**GEAR DRIVEN TRIPLE CAMS**



**CONNECTING ROD**



# DRAG PARTS LIST



Electrical and Lighting	Part #
Drag Specialties LED Low-Profile Taillight	2010-0772
Custom Dynamics Taillight Base	2010-1276
Custom Dynamics Taillight Circuit Board	2010-1279
Alloy Art LED Driving/Signal Light	2020-1764
Namz Deutsch Builder Kit - Black	2120-0075
Namz Deutsch Builder Kit - Gray	2120-0076
Drag Specialties Radio Switch Kit	0616-0125
Cycle Electric Inc. 3-Phase 50amp Charging System	2112-0409
Drag Specialties High-Performance Starter Motor 1.4kW - Black	80-1001
Kicker Plug and Play Audio Kit W/Amp and Speakers	4405-0603
Accel Universal 8.8mm Spark Plug Wire Kit	DS242654

Engine Sensors and Switches	Part #
Drag Specialties Hydraulic Stoplight Switch	2106-0480
Koso Wide-Band Bosch O2 Sensor	1861-0521
Feuling Throttle Position Sensor	1022-0121
Feuling Idle Air Control Module	1022-0122
Feuling MAP Sensor	1022-0124
Feuling 5.3 G/S Fuel Injector W/ EV-6 Connector	1022-0120
Drag Specialties Engine Temperature Sensor	DS289285
Drag Specialties Crank Position Sensor	1022-0202
Drag Specialties Neutral Switch	DS272207
Drag Specialties Electronic Speedometer Sensor	2210-0286

Foot Controls	Part #
Thrashin Supply Shifter Peg - Black	1603-0333
Thrashin Supply P-54 Softail Passenger Footpegs - Black	1620-1761
Thrashin Supply P-54 Footpegs - Black	1620-1754
Thrashin Supply Rear Brake Master Cylinder Cover - Black	1731-0638

Hand Controls	Part #
Thrashin Supply Mid Bend Handlebars - Black	0601-4144
Thrashin Supply 6 1/2" Pullback Risers - Black	0602-1046
Drag Specialties Handlebar Plug for TBW Handlebars	0634-0331
Drag Specialties Replacement Handlebar Grips	0630-0373
Drag Specialties OEM Style Tapered Mirrors - Black	0640-1310

Drive Line	Part #
PBI Offset Transmission Sprocket 24-tooth	1212-0138
Jims Mega Nut	DS-194003
Drag Specialties Primary Chain Tensioner Mount	DS181201
Eastern SSPD. Clutch Push Rod Kit	DS192510
Eastern Clutch Hub Nut	DS193156
D.I.D Pro-Street 530VX Series Chain - Gold/Black	1223-0355
Baker Overdrive 6-Speed Transmission	DS194521
Spyker Starter Jackshaft Kit	2110-0148
Barnett Scorpion Low-Profile Lock-Up Clutch	1130-0208
Drag Specialties Primary Chain	DS-192090
Drag Specialties Compensating Sprocket	DS195196
Alloy Art Shift Linkage - Black	1601-0481
Cometic Primary Gasket Kit	0934-0743
Feuling American Flag Derby Cover - Black	1107-0614
Feuling ARP 00-05 Dyna External Primary/Transmission Fastener Kit	2401-1092

Exterior Trim	Part #
Feuling ARP 17-20 Road Glide Chassis Dress Up Fastener Kit	2401-1099
Klock Werks 9" Sport Flare Windshield - Dark Smoke	2310-0581
Paul Yaffe's Bagger Nation Stealth Fairing Support Bar	2330-0148

Engine	Part #
Feuling TwinCam Race Series Oil Pump	0932-0020
Feuling ARP Cylinder Studs and Head Bolts	2401-0128
Feuling ARP TwinCam Internal Fastener Kit	2401-0815
Feuling ARP TwinCam External Engine Fastener Kit	2401-1091
Feuling Race Series 594 Camchest Kit - Gear Drive	0925-0736
Feuling Cylinder Head Breathers	1012-0247
Feuling High-Load Beehive Valve Spring Kit	0926-0853
S&S Inner and Outer Cam Gear Set	DS199532
Jims Rocker Arm Shafts	DS193820
Drag Specialties Replacement Rocker Arm - Front Intake/Rear Exhaust	DS193833
Drag Specialties Replacement Rocker Arm - Rear Intake/Front Exhaust	DS193834
K&N Crankcase Vent Filter W/O Stud	62-1000
Drag Specialties Heavy Duty Exhaust Flange Kit	1861-0888
Cometic Twin Cam 0.030" MLS Head Gaskets - 4" Bore	0934-0002
Eastern Dowel Pins	0920-0067

Brake Lines and Cables	Part #
Barnett Stealth Series Throttle Cable	0650-0926
Barnett Stealth Series Idle Cable	0651-0568
Barnett High-Efficiency Clutch Cable	0652-0515
Goodridge Universal Brake Line - Ebony 28"	11328-E
Goodridge Universal Brake Line - Ebony 19"	11319-E
Goodridge Universal Brake Line - Ebony 17"	11317-E
Goodridge 90 Degree Fitting - Ebony	599-03BK
Goodridge Banjo Crush Washers - 10mm	44516-6
Goodridge Banjo Bolt - 10mm x 1.00	1742-0384
Russel Bubble Brake Line Tee	DS097023

Tires	Part #
Bridgestone Battlax Sport Touring T31 120/70ZR17	0301-0741
Bridgestone Battlax Sport Touring T31 180/55ZR17	0302-1227

Frame and Suspension	Part #
Drag Specialties Weld-On Kickstand Mount	0510-0196
Drag Specialties Kickstand	DS-240049
Drag Specialties Kickstand Spring	DS-240330
Legend Revo-ARC Remote Reservoir 13" Rear Shock	1310-1886
Alloy Art Radial Brake Caliper Mounts - Right Side, Black	1701-0652
Alloy Art Radial Brake Caliper Mounts - Left Side, Black	1701-0654
Custom Cycle Engineering Swing Arm Spherical Bearing Kit	1302-0208
Drag Specialties Neck Post Bearing Cups	DS-222800
Drag Specialties Steering Stem Bearing and Race Kit	22-1032
Drag Specialties Dyna Front Motor Mount	0933-0101

Misc.	Part #
Drag Specialties DOT 4 Brake Fluid	3703-0013

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