



ENGINE	SPECS
Brand	BBC-S&S 100 SMOOTH™
Finish	Polished & Chrome
Displacement	100"
Bore X Stoke	4.00" X 4.00" (Square)
Horsepower	95 bhp
Torque	110 lb/ft
Carburetor	S&S Super E
Air Cleaner	S&S Tear Drop
Oil Pump	S&S High Volume
Warranty	2 Year / 20,000 Mile
Overview	Reliability, power and comfort... the best of all worlds. And when we say reliability, we not only mean the life of the engine, but the life of motorcycle and everything that's bolted to it. Branded as '100 SMOOTH™,' this internally reformed 100 cubic inch engine boasts a healthy 110 lbs. of torque. With a square configuration of a 4.00" bore and 4.00" stroke, proprietary compression ratios, redesigned cam timing, and reciprocating weights all result in an incredibly smooth running engine while meeting all the strict legal requirements. While looking like any other S&S Super Sidewinder engine from the outside, the essence of this new engine is the low vibration. High engine vibration is an enemy to both the rider and the motorcycle. The effects of high engine vibration may cause premature rider fatigue as well. Eliminate engine vibration and you will eliminate potential problems.
TRANSMISSION	SPECS
Brand	Baker
Finish	Polished & Chrome
Drive	Right Side
Gears	6-Speed Overdrive
Warranty	5 Year / 50,000 Mile
Overview	This is the original 6-speed design that revolutionized the American V-Twin industry. Yet, it's still the best overdrive 6-speed built to this day...hands down. This Detroit built tranny is designed and manufactured to comfortably handle the power from our engines while looking good behind it.
DRIVETRAIN	SPECS
Primary Drive for Builds	Enclosed Wet Chain
Finish	Chrome
Primary Drive for Kits	BDL Open Belt
Finish	Polished
Final Drive	BBC-PM Chain BrakeDrive System
Overview	We build our motorcycles with a sleek, thickly chrome plated primary drive while we provide the tough looking BDL open belt drives for the unassembled orders. The final drive for our Sled models come standard with our unique BrakeDrive system. With Performance Machine manufacturing the BrakeDrive system for us, this BBC in-house designed component combines both the brake and sprocket for the ultimate clean look and function.
ELECTRICAL	SPECS
Wiring Harness	BBC-WirePlus
Charging System	Spyke 32 Amp

Ignition	Crane Hi-4 Dual Fire
Coil	80,000 Volt Mini
Starter	Spyke Polished & Chrome
Battery	Interstate
Overview	For you guys wanting to build this bike from the unassembled state, you will be very happy with our new wiring harness. This harness is a plug and play type that will tremendously eliminate your wiring time and confusion. And with the high-end brand name electrical components hooked up to this bike, we're sure your seat time will be at a maximum and not on the side of the road kicking rocks.
FRAME	SPECS
Brand	BBC The Athena Chopper (Pat. #D517451)
Type	Softail
Frame Tube	0.160" Wall DOM Seamless
Swingarm	BBC Devil's Tail (Pat. Pending)
Backbone	0.250" Wall 3" Stretch
Downtube	0.160" Wall 6" Stretch
Mid Section	4" Stretch
Neck Rake	40°
Seat Height	19" from ground
Wheel Base	114" end to end
Weight	650 lbs approx.
Warranty	Lifetime of Original Owner
Overview	<p>The Athena frame starts out in the same jig as the Sled, but has obvious design touches. It's unique in that it has an extra stretch in the mid section of the frame behind the transmission. This allows for a low seat height from the oil tank being located behind the tranny as opposed to hanging on top of it. The oil tank is molded into the frame with sheetmetal. The Devil's Tail swingarm is a new creation that finishes up the bike with that custom one-off look.</p> <p>The frame is the foundation of the motorcycle's aesthetics and reliability. All our frames are designed and manufactured in house in our Big Bear Lake facility. Every frame component (e.g. neck, side plates, tank mounts, tranny plate, axle adjusters, etc) are CNC manufactured with precision. Utilizing a 0.250 wall, 1.5" tube steel for the backbone and 0.160 wall, 1.125" tube for the rest of the frame, BBC uses the best steel possible for our frames. All frames are 100% TIG welded for a clean, strong and precise fusion. We think we make a statement about our confidence with a lifetime warranty on the frames we make.</p>
SHEETMETAL	SPECS
Fuel Tank	BBC The Athena, 3.0 Gallons
Gas Cap	BBC Flush Mount Pop-Up
Oil Tank	BBC The Athena (Pat. # D512677)
Rear Fender	BBC Athena 12 Gauge Steel
Front Fender	BBC Athena 12 Gauge Steel
Warranty	Lifetime of Original Owner
Overview	Like our frames, our tanks and fenders are designed and manufactured in-house. We produce the sheetmetal with the frame as a unit, then gets 'mock-up' before we hand it over to our painters or ship it out to the unassembled kit customers. We use heavy duty 12 gauge steel for our fenders and 14 gauge steel for the tanks. All tanks are pressure tested and the fenders are computer cut. We guarantee and warranty any leaks from the tanks and cracks in the fenders for your lifetime.
SUSPENSION	SPECS
Frontend	BBC Smooth Mount Hidden Axle
Finish	Chrome
Triple Tree Rake	6°
Trail Length	3.75"
Tube Length	12" Over Stock
Rear	Progressive Suspension
Finish	Chrome
Seat Travel	2.25"
Overview	Designed and manufactured in-house, our fully chrome frontend is exclusively made for our motorcycles to be aesthetically cool and functionally bomb proof. The BBC logo branded 6° triple trees have what we call a 'smooth mount' design - you don't see the tube and axle nuts on top. And what we mean with the 'hidden axle' - it's a nutless type axle, making the finish smooth. With all our calculations with the frame and frontend, we've landed the front wheel in the sweet spot of the final trail measurement. This allows for a motorcycle with no frontend flop and high speed

wobble. For the rear, we've gone with the industry's best shocks - Progressive Suspension.

WHEELS | BRAKES

SPECS

Wheels	Big Bear Choppers
Type	Forged Billet Aluminum
Finish	Polished
Front Rim	21" x 2.125"
Rear Rim	18" x 10.5"
Front Tire	Avon Venom 90mm
Rear Tire	Avon Venom 300mm
Front Brake	PM 4 Piston Caliper
Rear Brake	BBC-PM 4 Piston Caliper BrakeDrive System

Overview



For you guys that want to build this bike from our unassembled kit, we offer 6 wheel choices. Stopping our wheels are 4-piston caliper polished brakes. Our BrakeDrive system combines both the brake and sprocket for the ultimate clean look and function.

ACCESSORIES

SPECS

Pipes	Chrome 2 into 1 Baffled EPA Approved
Bars	BBC The Athena
Hand Controls	Chrome OEM Style
Dash	BBC-WirePlus Chrome Round Digital
Grips	Black Rubber
Foot Controls	BBC Chrome
Headlight	Chrome
Signals	Chrome DOT Approved
Mirrors	Chrome DOT Approved
Seat	BBC-High End
Kickstand	BBC Mid-Mount
Cables	Goodridge Stainless Steel Clear Coated

Overview

This is where a lot of manufacturers cut corners to cut costs. Well, we don't. In fact, we march though every corner of the motorcycle's manufacturing, assembly and component selection without a doubt that we are providing to you the best possible bike for your money.

Prices starting from:

\$ 39,250 plus Freight, PDI and taxes