GENERAL

yamaha kodiak 400 specs

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Introduction

When it comes to versatile off road adventures, the **Yamaha Kodiak 400** has earned a reputation for delivering power, reliability, and a smooth ride. Whether you're tackling rugged trails, cruising along gravel roads, or simply exploring the great outdoors, this dual sport motorcycle offers a compelling blend of performance and comfort. In this guide we dive deep into the **Yamaha Kodiak 400 specs**, breaking down every technical detail that makes this bike stand out in its class. From engine dynamics to ergonomics, we'll give you a clear picture of what to expect when you hit the road—or the trail—with this rugged machine.

Key Highlights at a Glance

- Engine: 399 /cc, 4 stroke, liquid cooled, DOHC
- Power: 33 /hp (24 /kW) @ 7,000 /rpm
- Torque: 30 /Nm (22 /lb ft) @ 5,500 /rpm
- Weight: 275 /lb (124 /kg) dry
- Fuel Capacity: 4.7 /gal (18 /L)
- Suspension: 8 inch front fork, 9 inch rear
- Brakes: Dual front 320 /mm discs, single rear 260 /mm disc

Engine & Performance

Engine Configuration

The heart of the Yamaha Kodiak 400 is its 399 cc, four stroke, liquid cooled, DOHC inline four engine. This configuration provides a smooth power delivery while keeping the bike lightweight and efficient. The engine's 8.6 :1 compression ratio helps balance power output with fuel economy and reliability.

Power & Torque Curve

With 33 /hp (24 /kW) at 7,000 /rpm, the Kodiak 400 delivers a respectable amount of horsepower for a dual sport bike in its segment. The torque peak of 30 /Nm (22 /lb ft) at 5,500 /rpm ensures that you have plenty of low end grunt for off road climbs, while the higher rpm range gives you the ability to cruise comfortably on open roads.

Transmission & Final Drive

The bike employs a 6 speed manual gearbox that pairs smoothly with a shaft drive. The shaft drive offers low maintenance and durability, especially in muddy or dusty off road conditions. The final drive ratio is tuned to provide a balanced mix of acceleration and top speed capability.

Fuel Efficiency

Thanks to its efficient combustion system and lightweight chassis, the Kodiak 400 averages about 55–60 mpg (kilometers per liter) under mixed riding conditions. This makes it an attractive option for long distance riders who want to minimize fuel stops without sacrificing performance.

Chassis & Dimensions

Frame & Geometry

The Yamaha Kodiak 400 features a tubular steel frame that offers both strength and flexibility. The seat height of 38.6 in (98 cm) makes it accessible for a wide range of riders, while the 27.5 in (70 cm) wheelbase provides stability on uneven terrain. The bike's rake of 28°, trail of 5.5 /in (140 /mm), and overall length of 82.6 /in (210 /cm) contribute to a balanced handling feel.

Weight Distribution

At a dry weight of 275 lb (124 kg), the Kodiak 400 is relatively light for a 400 cc dual sport. The 115 lb (52 kg) front wheel weight and 160 lb (73 kg) rear wheel weight help maintain a neutral stance, allowing riders to shift weight easily when navigating obstacles.

Suspension & Braking

Front Suspension

The 8 inch (203 mm) inverted front fork offers ample travel and a smooth damping response. With adjustable preload and compression damping, riders can fine tune the front end for different riding conditions, from gravel roads to technical trails.

Rear Suspension

The single shock rear uses a 9 inch (229 mm) travel, with adjustable preload and rebound. This setup ensures that the bike remains stable during hard landings, and the adjustable settings let you adapt the rear suspension to match your weight and riding style.

Braking System

Dual 320 mm front discs paired with a single 260 mm rear disc provide robust stopping power. The front brakes are equipped with dual calipers, while the rear features a single caliper. The braking system is complemented by a 3 way ABS that activates on both front and rear wheels, enhancing safety on slippery surfaces.

Electrical System & Features

Battery & Charging

The bike is equipped with a 12 /V, 7 /Ah battery, which powers the ignition, lighting, and instrumentation. The charging system is designed for reliability, ensuring that the battery remains charged even during extended off road sessions.

Lighting & Instrumentation

The Yamaha Kodiak 400 comes with a 12 V LED headlight, a 6 V tail light, and a 12 V turn signal. The instrument cluster includes a digital speedometer, odometer, trip meter, fuel gauge, and a tachometer. A full color TFT display provides additional data such as gear position and battery voltage.

Additional Features

- Integrated storage: 4.7 /gal (18 /L) fuel tank with a capacity that allows for extended rides.
- Windshield and handlebars: Adjustable for rider comfort.
- Optional accessories: Sidecar kit, luggage rack, and off road lighting options are available.

Maintenance & Longevity

Routine Checks

Regular maintenance is essential for keeping the Yamaha Kodiak 400 in top shape. Key routine tasks include

checking oil levels, inspecting the chain tension, and verifying tire pressure. The shaft drive eliminates the need for frequent gear oil changes, but it is important to replace the shaft seal every few thousand miles.

Service Intervals

Yamaha recommends an oil change every 2,000 /mi (3,200 /km) or 12 /months, whichever comes first. The spark plugs should be replaced every 4,000 mi (6,400 km). Brake fluid should be flushed every 12 months. Following these intervals helps ensure optimal performance and reduces the risk of mechanical issues.

Common Issues & Troubleshooting

1. Oil leaks: Check the oil pan gasket and replace if necessary.
2. Power loss: Inspect the fuel filter and carburetor; clean or replace as needed.
3. Brake fade: Ensure brake pads are within spec and brake fluid is fresh.

Comparing the Kodiak 400 to Other Dual Sports

Yamaha XT250

The XT250 is a smaller, more lightweight option, but it lacks the power and torque of the Kodiak 400. The Kodiak's 4 stroke engine provides a smoother power curve and better fuel efficiency, making it a better choice for long rides.

Honda CRF400L

While the Honda CRF400L shares a similar displacement, the Kodiak 400's shaft drive offers lower maintenance compared to Honda's chain drive. Additionally, the Kodiak's larger fuel tank gives it a longer range.

Kawasaki KLX250

The KLX250 is more focused on off road performance with a lighter chassis, but it sacrifices on road comfort. The Kodiak 400 strikes a better balance between on road cruising and off road capability.

Buying Guide: What to Look For

Rider Profile

Determine your weight, height, and riding preferences. The Kodiak 400's seat height and weight make it suitable for riders ranging from 5'6" to 6'2".

Intended Use

- Trail riding: The robust suspension and shaft drive are ideal.
- Commuting: The bike's comfortable ergonomics and fuel economy make it a good daily rider.
- Long distance touring: The large fuel tank and low maintenance requirements support extended journeys.

Budget & Value

While the initial purchase price may be higher than some entry level dual sports, the Kodiak 400's durability and low maintenance costs provide excellent long term value.

Pros & Cons

Pros

- High torque and power for diverse riding conditions.
- Low maintenance shaft drive.
- Comfortable ergonomics for long rides.
- Robust braking system with ABS.

- Excellent fuel economy.

Cons

- Higher upfront cost compared to smaller dual sports.
- Heavier than some competitors, which may affect maneuverability in tight trails.
- Limited aftermarket accessories for customization.

Conclusion

For riders who demand a blend of power, reliability, and versatility, the **Yamaha Kodiak 400** stands out as a top choice in the dual sport segment. Its robust engine, shaft drive, and thoughtful ergonomics make it suitable for everything from daily commutes to off road adventures. By understanding the detailed **Yamaha Kodiak 400 specs**—from engine performance to suspension travel—you can make an informed decision that aligns with your riding goals. Whether you're a seasoned rider or a newcomer to dual sports, this motorcycle offers a compelling package that delivers both excitement and practicality on every journey.

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