



Arctic Cat M 600 Sno Pro ALPHA ONE 599cc Deep Snow Snowmobile

M-600-SNO-PRO-ALPHA-ONE

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Product Description

Arctic Cat M 600 Sno Pro ALPHA ONE 2027 599cc Snowmobile

If you ride deep powder, you need a snowmobile that's built to a higher standard. With the ultra-agile CATALYST™ platform and your choice of ALPHA ONE® mono-rail or twin-rail suspension, this lineup floats, climbs and carves with purpose. The M 600 Sno Pro ALPHA ONE offers competitive specification for its class and benefits from Arctic Cat's legacy of snowmobile innovation. Whether you are a seasoned enthusiast or a rider building hours in their home riding area, the M 600 Sno Pro ALPHA ONE brings a proven combination of chassis engineering, powertrain capability, and standard equipment to the trails.

Arctic Cat has been producing snowmobiles since 1962 and the M series continues that tradition with a machine that reflects current engineering priorities while remaining true to the brand's commitment to rider-focused design. The Sno Pro designation signals a higher level of suspension specification and performance-oriented tuning, placing this model at the more capable end of the lineup. The ALPHA ONE rear suspension is a central feature of this model, offering a single-beam design that reduces weight and improves deep snow float and maneuverability, setting it apart from conventional tracked suspension layouts. The 599cc engine at the core of the M 600 Sno Pro ALPHA ONE powers it through a wide range of conditions with consistency and character.

The M 600 Sno Pro ALPHA ONE is intended for experienced riders who regularly venture into deep snow environments, mountain terrain, and backcountry zones. It performs best in untracked powder, steep sidehills, and high-elevation riding areas where conventional trail sleds fall short. Riders who prioritize powder performance, sidehill capability, and the ability to navigate variable deep snow terrain will find the M 600 Sno Pro ALPHA ONE an honest and capable machine for the most demanding backcountry days. The M 600 Sno Pro ALPHA ONE is backed by a 12 Months warranty.

Engine and Powertrain

The M 600 Sno Pro ALPHA ONE is powered by a 2-Stroke engine, liquid cooled, with dual stage injection fuel delivery. The bore and stroke dimensions of 73.8 x 70 mm give the engine its distinctive power character. Clutch duties are handled by an ADAPT / ADAPT setup, calibrated to deliver smooth and efficient power transfer across the power range. The exhaust system, apv with tuned pipe, pipe sensor and stainless steel manifold and muffler, contributes to the engine's overall performance character. A minimum octane rating of 91 is recommended to maintain proper engine performance.

- Displacement: 599cc
- Engine type: 2-Stroke
- Cooling: Liquid
- Cylinders: 2

- Bore x stroke: 73.8 x 70 mm
- Fuel delivery: Dual Stage Injection
- Drive clutch: ADAPT
- Driven clutch: ADAPT
- Reverse: Push-button Engine
- Fuel capacity: 10.4 gal
- Minimum octane: 91
- Starter: Push-Button Electric Start

Track and Suspension

The M 600 Sno Pro ALPHA ONE runs a 146 in or 154 in x 15 in PowerClaw track with a 2.60 in lug height and 2.86 in pitch. In deep snow applications, the track configuration is a critical factor in overall performance, and the M 600 Sno Pro ALPHA ONE is set up to maximize float, bite, and control in powder conditions. The front suspension features AWS 36 with 7.6 in of travel, while the rear suspension uses ALPHA-ONE Rear Suspension with 13.5 in or 14.5 in of travel for the intended riding style.

- Track length: 146 in or 154 in
- Track width: 15 in
- Track type: PowerClaw
- Lug height: 2.60 in
- Pitch: 2.86 in
- Front suspension: AWS 36
- Front travel: 7.6 in
- Rear suspension: ALPHA-ONE Rear Suspension
- Rear travel: 13.5 in or 14.5 in
- Ski type / width: G2 ProClimb -7
- Ski stance: 35-37 in - Adjustable
- Brakes: Stealth 88 Hydraulic Master Cylinder

Chassis and Dimensions

The chassis of the Arctic Cat M 600 Sno Pro ALPHA ONE is designed to balance rigidity with weight management. With the weight budget being carefully managed for maximum deep snow float and maneuverability. The heat exchanger configuration is front/short tunnel, designed for consistent cooling across typical operating temperatures.

- Overall chassis length: 122 in or 126.5 in
- Overall chassis width: 42-44 in
- Overall chassis height: 50 in
- Heat exchanger: Front/Short tunnel

Features and Standard Equipment

The Arctic Cat M 600 Sno Pro ALPHA ONE comes equipped with a range of standard features selected to enhance the riding experience from the moment you take delivery. Lighting is provided by led for strong visibility on early morning or evening rides. The na windshield offers appropriate wind and weather protection for the intended riding category. The hooked w/grab handle handlebar design positions the rider comfortably for the intended riding posture. Available in Black, the M 600 Sno Pro ALPHA ONE presents a distinctive and purposeful appearance.

Standard accessories include: 12V Outlet, Sport Front Bumper, Integrated Goggle Holder, ATACH Mounting, Hand & Thumb Warmers, Ice Scratchers, Lightweight Mountain Brake Disc, Vertical Steering, Tether Switch, Visor Plug-In.

- Lighting: LED
- Windshield: NA
- Handlebars: Hooked w/grab handle
- Seating style: Mountain
- Available colors: Black
- Starter: Push-Button Electric Start

