

2022

FREERIDE™

Live large, live free
and go big.



FREERIDE®
165 850 E-TEC® TURBO SHOWN

// PACKAGE HIGHLIGHTS

- Rotax® 850 E-TEC® or 850 E-TEC Turbo engines available
- High-performance KYB PRO shock package with lightweight springs
- Short tunnel with lightweight snowflap
- RAS™ 3 front suspension with lightweight ski spindle and revised ski stopper
- tMotion™ rear suspension with reinforced rails and ice scratchers
- E-TEC® SHOT™ starter standard
- Full-length extruded-profile running boards with large openings
- One-piece lightweight hood on all configurations
- Sway bar quick-disconnect
- Low handlebar strap
- NEW standard with two sets of LinQ attachment points
- Sea-level calibration available on select configurations
- 4.5 in. digital display
- Smaller-diameter handlebar ends and handgrips
- Compact and lightweight deep-snow seat
- DS 3 skis
- Belt monitoring system

ROTAX® ENGINE

	850 E-TEC® TURBO	850 E-TEC®
Engine details	Liquid-cooled, two-stroke, turbocharged, eRAVE™	Liquid-cooled, two-stroke, eRAVE™
Horsepower	165 up to 8,000 ft.	165
Cylinders – Displacement	2 – 849 cc	2 – 849 cc
Bore – Stroke	82 mm – 80.4 mm	72.3 mm – 73 mm
Carburation	E-TEC® direct injection with additional booster injectors	E-TEC® direct injection with additional booster injectors
Fuel type – Octane	Premium unleaded – 91	Premium unleaded – 91
Fuel tank	36 L/9.5 US gal	36 L/9.5 US gal
Oil tank capacity	3.4 L/3.6 qt	3.4 L/3.6 qt

POWERTRAIN

	850 E-TEC® TURBO	850 E-TEC®
Drive clutch	pDrive™ with clickers	pDrive™ with clickers
Driven clutch	QRS Vent Plus	QRS Vent Plus
Drive sprocket pitch	89 mm/3.5 in.	73 mm/2.86 in. [146 in.] 89 mm/3.5 in. [154 – 165 in.]

DRY WEIGHT

	850 E-TEC® TURBO	850 E-TEC®
Dry weight	214 kg/471 lb [154 po] 217 kg/478 lb [165 po]	206 kg/453 lb [146 po] 205 kg/450 lb [154 po] 206 kg/453 lb [165 po]

DIMENSIONS

Overall vehicle length	3,058 mm/120.4 in. [146 in.] 3,188 mm/125.5 in. [154 in.] 3,299 mm/129.9 in. [165 in.]
Overall vehicle width	1,080 to 1,110 mm/42.5 to 43.7 in.
Overall vehicle height	1,395 mm/54.9 in.
Ski stance	910 or 950 mm/35.8 or 37.4 in.
Track (Length x Width x Profile)	PowderMax ¹ II with FlexEdge™: 146 x 16 x 2.5 in. PowderMax ¹ Light with FlexEdge™: 154 x 16 x 2.5 in. 154 x 16 x 3.0 in. opt. 165 x 16 x 2.5 in. sea-level opt. only 165 x 16 x 3.0 in.

COLOR

Arctic Desert

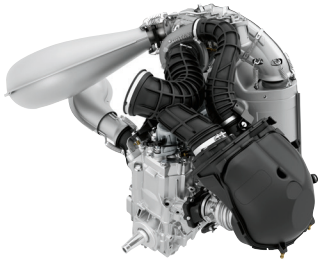
SUSPENSION

Front suspension	RAS™ 3
Front shock	KYB ¹ PRO 36 R Easy-Adjust
Front suspension travel	215 mm/8.5 in.
Rear suspension	tMotion™
Center shock	KYB ¹ PRO 40 Easy-Adjust
Rear shock	KYB ¹ PRO 40 Easy-Adjust
Rear suspension travel	239 mm/9.4 in.

FEATURES

Frame	REV® Gen4
Bodywork	Narrow design
Skis	Pilot™ DS 3
Seating	Deep-snow compact and lightweight
Handlebar	Tapered U-shaped aluminum with J-hooks/Low grab handle
Riser block height	165 mm/6.5 in.
Starter	850 E-TEC: SHOT, Electric (opt. Select models) 850 E-TEC Turbo: SHOT
Reverse	RER™
Brake system	Brembo racing brake with stainless-steel braided brake line
Heated throttle lever/grips	Standard
Gauge type	4.5 in. digital display
Windshield	Optional
Runner – Carbide	Square 3/8 – 4 in.
Bumpers (front/rear)	Std/Std

// FEATURE HIGHLIGHTS



1 Rotax 850 E-TEC® Turbo engine

The first-ever factory-built 2-stroke turbocharged engine in any industry. It boasts instant response and a full 165 HP up to 8,000 ft of elevation. Sophisticated design integrates flawlessly with the REV Gen4 platform for maximum agility. Factory installation ensures peace of mind.



2 Short tunnel

Shorter tunnel length without snowlap for greater deep-snow capabilities with more clearance and lighter overall weight. Standard rear fender with LinQ-ready attachment points.



3 tMotion™ rear suspension with reinforced rails

A swiveling rear arm and split front arm allow the skid to flex laterally for more predictable carving. More rising-rate motion ratio adds capacity and comfort. Reinforcement ensures strength on hard landings.



SUMMIT® SP®
165 850 E-TEC® SHOWN



4 High-performance KYB PRO shock package (with lightweight springs)

Lightweight, extreme-capability, extreme-durability shocks for control in the toughest conditions. Easy adjust-equipped for dialed-in compression.



5 Lightweight features

Weight savings from the one-piece lightweight hood, ski spindle, stopper, springs, seat and more make technical maneuvers easier than ever.



6 E-TEC® SHOT™ starter

Push-button starting with almost no added weight. Uses energy stored in the lightweight ultracapacitor to turn the magneto and with E-TEC® technology, starts the engine.

ski-doo

