

SX 2016
RADICALLY NEW

450 SX-F
2016 FACTORY EDITION

READY TO RACE
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ENGINE TYPE	Single cylinder, 4-stroke
DISPLACEMENT	449.9 ccm
BORE/STROKE	95/63.4 mm
COMPRESSION RATIO	12.75:1
STARTER/BATTERY	Electric starter / Lithium Ion12V 2.2 Ah
TRANSMISSION	5 gears
FUEL SYSTEM	Keihin EFI, throttle body 44 mm
CONTROL	4 V / SOHC with rocker levers
LUBRICATION	Pressure lubrication with 2 oil pumps
GEAR RATIOS	16:32 18:30 20:28 22:26 24:24 -
PRIMARY RATIO	31:76
FINAL DRIVE	13:48
COOLING	Liquid cooling
CLUTCH	Wet multi-disc DDS-clutch, Brembo hydraulics
IGNITION / ENGINE MANAGEMENT	Keihin EMS

FRAME	Central double-cradle-type 25CrMo4 steel
SUBFRAME	Aluminium
HANDLEBAR	Neken, Aluminium Ø 28/22 mm
FRONT SUSPENSION	WP-USD, AER48, Ø 48 mm
REAR SUSPENSION	WP-Monoshock with linkage
SUSPENSION TRAVEL FRONT/REAR	300/300 mm
FRONT/REAR BRAKES	Disc brake 260/220 mm
FRONT/REAR RIMS	1.60 x 21"; 2.15 x 19" D.I.D. Dirt Star
FRONT/REAR TIRES	80/100-21"; 120/90-19"
CHAIN	5/8 x 1/4"
SILENCER	Titanium
STEERING HEAD ANGLE	26.1°
TRIPLE CLAMP OFFSET	22 mm
WHEELBASE	1.485 ± 10 mm / 58.5 ± 0.4 in
GROUND CLEARANCE	370 mm / 14.6 in
SEAT HEIGHT	960 mm / 37.8 in
TANK CAPACITY, APPROX.	7.1 / 1.85 gal
WEIGHT, APPROX.	100.4 kg / 221.3 lbs



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ENGINE

- The 450 SX-F Factory Edition engine design is compact, light and provides high performance throughout the entire range of power
- The engine cases are designed and engineered to centralize engine mass and reduce overall length and width
- Keihin EMS and 44mm throttle body featuring a lightweight direct-connect design contribute to seamless power delivery
- Electronic launch control makes for efficient starts while multiple engine maps control the overall power delivery according to the rider's needs
- DDS (Damped Diaphragm Steel) clutch has a new lightweight basket along with a reworked inner hub and pressure plate that provides additional oil for cooling and durability.

- The super-compact and lightweight Lithium-Ion starter battery weighs just 1.1 pounds
- WP flow-optimized radiator design features exceptional engine cooling
- The 450 SX-F Factory Edition's engine features a Flow Design Header (FDH) with an integrated sound resonator that increases power along with a titanium Akrapovic silencer for quick throttle response.

CHASSIS

- NEW WP AER 48 front fork with a sophisticated air spring design and separate damping for easy adjustment to any track condition, rider weight or skill level. The fork is now 3.1 pounds lighter than the 4CS unit it replaces.
- NEW Orange anodized CNC-machined triple clamps feature a rubber damping system, Neken handlebar and ODI lock-on grips
- Lightweight chromoly steel frame provides higher torsional rigidity with less longitudinal stiffness resulting in excellent handling and energy absorption
- "No Dirt" footpeg design will not clog with mud or dirt, to keep the foot peg in the correct position at all times.
- New-generation WP shock has been developed in conjunction with the new fork
- Super lightweight Galfer Wave rotors, CNC machined hubs, high-end D.I.D. DirtStar wheels rims and are fitted with Dunlop GEOMAX MX32 tires as standard equipment
- The airbox and air filter design offers maximum protection and airflow while providing quick "no tools" air filter changes
- The new 2016 450 SX-F Factory Edition weighs only 221.3 lbs / 100.4 kg



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ENGINE TYPE	Single cylinder, 4-stroke
DISPLACEMENT	249.9 cc
BORE/STROKE	78/52.3 mm
COMPRESSION RATIO	14.4:1
STARTER/BATTERY	Electric starter / Lithium Ion 12V 2.2 Ah
TRANSMISSION	5 gears
FUEL SYSTEM	Keihin EFI, throttle body 44 mm
CONTROL	4 V / DOHC with finger followers
LUBRICATION	Pressure lubrication with 2 oil pumps
GEAR RATIOS	13:32 16:32 17:28 19:26 21:25 -
PRIMARY RATIO	24:73
FINAL DRIVE	14:51
COOLING	Liquid cooling
CLUTCH	Wet multi-disc CSS-clutch, Brembo hydraulics
IGNITION / ENGINE MANAGEMENT	Keihin EMS

FRAME	Central double-cradle-type 25CrMo4 steel
SUBFRAME	Aluminium
HANDLEBAR	Neken, Aluminium Ø 28/22 mm
FRONT SUSPENSION	WP-USD, AER48, Ø 48 mm
REAR SUSPENSION	WP-Monoshock with linkage
SUSPENSION TRAVEL FRONT/REAR	300/300 mm
FRONT/REAR BRAKES	Disc brake 260/220 mm
FRONT/REAR RIMS	1.60 x 21"; 2.15 x 19" D.I.D. DirtStar
FRONT/REAR TIRES	80/100-21"; 100/90-19"
CHAIN	5/8 x 1/4"
SILENCER	Titanium and Carbon Fiber
STEERING HEAD ANGLE	26.1°
TRIPLE CLAMP OFFSET	22 mm
WHEELBASE	1.485 ± 10 mm / 58.5 ± 0.4 in
GROUND CLEARANCE	370 mm / 14.6 in
SEAT HEIGHT	960 mm / 37.8 in
TANK CAPACITY, APPROX.	7.1 / 1.85 gal
WEIGHT, APPROX.	98.5 kg / 217.2 lbs



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ENGINE

- The 250 SX-F Factory Edition engine design is compact, light and provides high performance throughout the entire range of power
- A lightweight forged bridged box-type CP piston, short connecting rod and stiff crankshaft contribute to a strong power delivery with a rev-limit of 14,000 rpm
- The engine cases have been designed to centralize engine mass and reduce overall length and width
- Keihin EMS and 44mm throttle body featuring a lightweight direct-connect design contribute to seamless power delivery
- Electronic launch control makes for efficient starts while multiple engine maps control the overall power delivery according to the rider's needs
- A CSS (Coil Spring Steel) one-piece clutch is matched with a Brembo hydraulic master cylinder for excellent feel and engagement
- The super-compact and lightweight Lithium-Ion starter battery weighs just 1.1 pounds
- WP flow-optimized radiator design features exceptional engine cooling

CHASSIS

- NEW WP AER 48 front fork with a sophisticated air spring design and separate damping for easy adjustment to any track condition, rider weight or skill level. The fork is now 3.1 pounds lighter than the 4CS unit it replaces.
- NEW Orange anodized CNC-machined triple clamps feature a rubber damping system, Neken handlebar and ODI lock-on grips
- Lightweight chromoly steel frame provides higher torsional rigidity with less longitudinal stiffness resulting in excellent handling and energy absorption
- "No Dirt" footpeg design will not clog with mud or dirt, remaining the correct position at times.
- New-generation WP shock has been developed in conjunction with the new fork
- Super lightweight Galfer Wave rotors, CNC machined hubs, high-end Excel rims and are fitted with Dunlop GEOMAX MX32 tires as standard equipment
- The airbox and air filter design offers maximum protection and airflow while providing quick "no tools" air filter changes
- The new 2016 250 SX-F Factory Edition weighs only 217.2 lbs / 98.5 kg



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WP

MOTOREX
Oil of Switzerland