SOIL STABILIZER/RECLAIMER

SX-6EX



ASTEC™


ASTEC

BUILT TO WORK WITH STRENGTH AND PRECISION IN THE TOUGHEST ENVIRONMENTS

Versatility

With a 447 kW (600hp) Cummins® QSX15 engine and a weight of 33,112kg (73,000lb), the mid-size SX-6ex offers a rare combination of power and mobility, allowing it to excel in a variaty of applications. The SX-6ex is equipped with a high performance 6-cylinder diesel engine that provides power to the rotor through a direct drum drive. The machine is equipped for cutting up to 508 mm (20") deep and 2.44 m (96") wide. Whether performing road rehabilitation, cold recycling or soil stabilization, the SX-6ex will exceed your expectations.

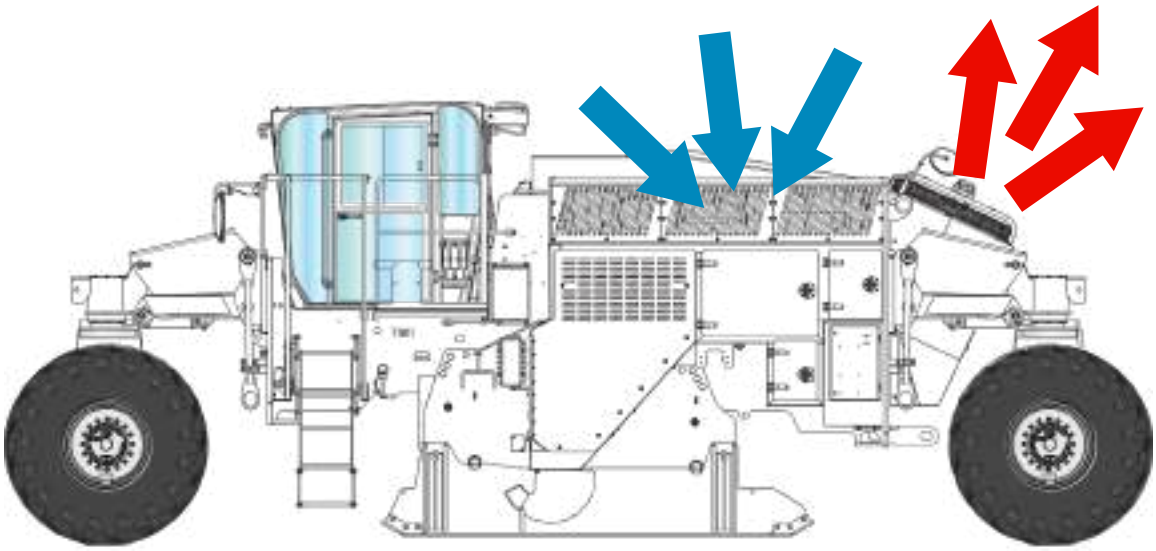
Strong Frame and Hydraulic Suspension

The SX-6ex is manufactured with a durable frame built at Astec from extremely strong A656 grade 80 steel. This steel has twice the yield strength as the mild steel used in other machines on the market. The custom-made frame is designed to perform in all terrains by providing substantial ground clearance. The wheels are suspended by four independently-controlled, hydraulically-adjustable leg assemblies that are bolted to the mainframe. This feature allows the depth of cut to be selected using a push button. The cutter housing is also securely fastened to the mainframe, providing strength and precision while the machine is working.



Powerful and Efficient Cooling

The SX-6ex cooling system introduces air from the top of the machine at the cleanest possible area, before it is exhausted away from the machine and engine through the rear radiator package. By pulling air from the top of the machine, the amount of dust traveling through the cooling system is limited. Clean-out panels provide convenient access for radiator maintenance. A variable speed fan also provides efficient cooling based on engine demand.





EXCELLENT VISIBILITY, ERGONOMIC CONTROLS AND OPERATOR COMFORT INCREASE YOUR PRODUCTIVITY

Visibility and Operator Platform

Designed for visibility and ease of operation, the operator station's seat slides laterally and swings 90 degrees to help create the perfect vantage point from which to work. The operator platform also slides 457 mm (18") past the right of the machine for additional visibility. A full view cab gives the operator an excellent view of the cutting edge and any obstacles that may be in the way. Mirrors on both sides provide the operator with additional viewpoints of the machine's surroundings.

Standard Backup Camera

A backup camera system provides additional visibility while the machine is operated in reverse. A screen inside the cab conveniently displays the area directly behind the stabilizer as soon as reverse is selected. The backup camera adds a level of comfort and convenience when navigating the SX-6ex around other machines and obstacles.

Controls and Steering

The machine's controls and display screen are conveniently arranged, and move with the seat to allow for safe and ergonomic machine operation. Joystick controls and four different steering modes increase the machine's maneuverability and ease of operation.



Comfortable and User-Friendly Cab

The ergonomic design of the sealed cabin ensures operator comfort and safety. An air conditioning and heating system, along with a cab pressurizer, give the operator a comfortable and dust-free environment in which to work. The cabin is also built with soundproofing and is rubber isolated to keep noise levels down.

IDEAL WEIGHT PLACEMENT AND A BALANCED FOUR-WHEEL DRIVE PROVIDE OPTIMAL POWER DISTRIBUTION

Weight Balance and Power Allocation

Weight balance and power allocation are critical in all stabilization and reclamation applications. The weight of the SX-6ex is perfectly distributed between the two axles, allowing the machine's engine to work as efficiently as possible with maximum tractive effort. With ideal weight placement and balanced four-wheel drive, the machine is better equipped to consistently perform in the most difficult project environments.



CUSTOM DESIGN FEATURES AND EASY MAINTENANCE ACCESS SAVES YOU TIME ON THE JOBSITE

Variable Geometry Cutter Housing

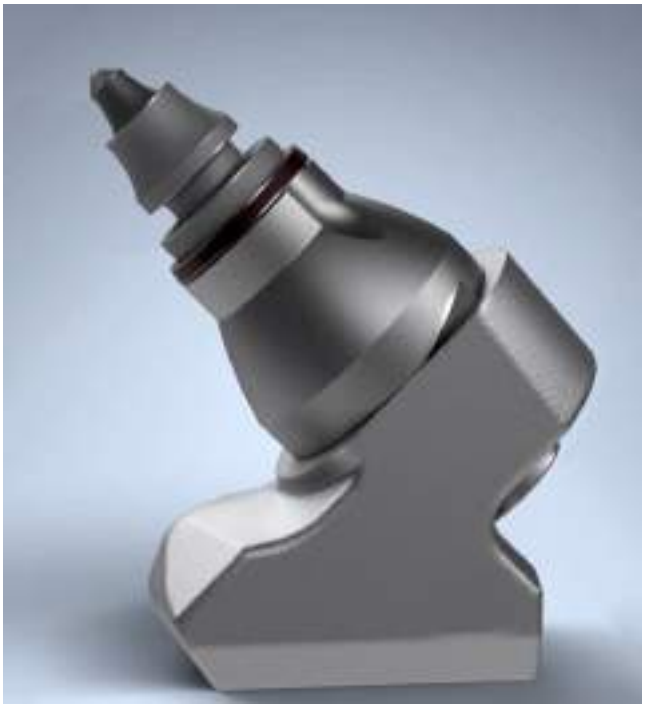
A variable geometry cutter housing enables the SX-6ex to achieve superior cutting, sizing and mixing. With additional room behind the drum and heavy-duty, hydraulically-adjustable front and rear doors, the SX-6ex provides unmatched mixing and sizing. The machine's cutter housing is fixed to the mainframe, allowing it to easily handle the forces of bidirectional cutting with no weak points.

Cutter Drum and Drive

The SX-6ex has a cut width of 2.44 m (96") with a variety of drum options to achieve a cut depth of up to 508mm (20"). Heavy-duty, Quick Change Tooling System (QC) or welded bases are available along with different tooth spacing to better fit the demands of your project environments. The SX-6ex cutter is driven by a mechanical, multi-groove v-belt drive. These drives are hydraulically-tensioned, delivering consistent and efficient power to the cutter drum. Boltless entry to the cutter drive also provides quick and easy access.

QX1 Quick Change Cutter Tooling

Accessibility, performance and durability are the exemplary features of the Quick Change Tooling System (QC). This unique tooling design increases wear life and drastically reduces the amount of time to change worn cutter components. As the frequency and duration of cutter maintenance decreases, so does the overall operating cost. The cutter inserts include a combination of design features that make them more convenient and economical to maintain. The sleeve is designed with a longer wear nose for enhanced durability. Notches in the nose are present, so cutter bits can be removed from the front using a fork tool. Notches in the seating face allow the sleeves to be removed from the front with a small wedge tool. The QC holder fully seats against the base block for maximum retention and wear resistance. No bolts are required for the sleeve or base block.









Electrical System

The SX-6ex has a standard, 24-volt electrical system with a 105-amp alternator. CAN-based electronics with on-board and remote diagnostics allow for simple troubleshooting throughout the machine.

Lubrication Points

Grease maintenance points are clearly labeled with recommended amounts and are conveniently placed around the machine to make preventative maintenance as simple as possible.

EASY ACCESS

- Hydraulically-adjustable doors allow for better access to the engine compartment
- Ground level, slide-out racks provide easier access to the machine's battery compartment
- Quick and easy belt maintenance access on left hand side of the machine



OPTIONS

Water and Emulsion Additive System

- 1,893 lpm (500 gpm) capacity with fully automatic controls and manual override

Tow Hitch

- Rear assembly tow hitch to pull tanker

Additional Lighting

- (4) 24v high intensity discharge lights

Drum Spacing (weld-on or Quick Change Tooling System)

- 16.8 mm (0.66″), 18.5 mm (0.73″)

Additional Cameras
Rear-Mounted Water System
Slope Sensor

SPECIFICATIONS

Engine
- SX-6ex: Tier III; Cummins® QSX-15 447 kW (600hp) @ 2,100 RPM

Weight
- Shipping weight.....33,112kg (73,000lb)
  *With 96" cutter housing and 58" diameter cutter drum

Electrical System
- CAN-bus serial communication systems for superior performance, reduced wiring, increased reliability and improved service and maintenance features

Propel System
- 2-speed hydrostatic drive
- 4-wheel drive –four individual drive motors with two pumps and flow dividers

Speed
- Travel: 8 km/h (5 MPH)

Tires
- High flotation, deep tread 28LR26 tires. Four heavy-duty single piece wheels

Steering
- Joy stick-controlled. Four steering modes: coordinated steer, crab steer, front steer only, rear steer only
- Turning radius 4.27m (19') in cut

Operator Station
- Fully enclosed, rubber isolated and pressurized with A/C and heating system
- The cab can extend up to 457 mm (18") past the right side of the machine

Injection Systems
- Water/emulsion system that is front mounted
- Rear-mounted water system
- Up to 1,900 lpm (500 gpm)

Service Capacities
- Fuel tank ..... 1,135 L (300 gal)
- Hydraulic fluid tank ..... 182 L (48 gal)

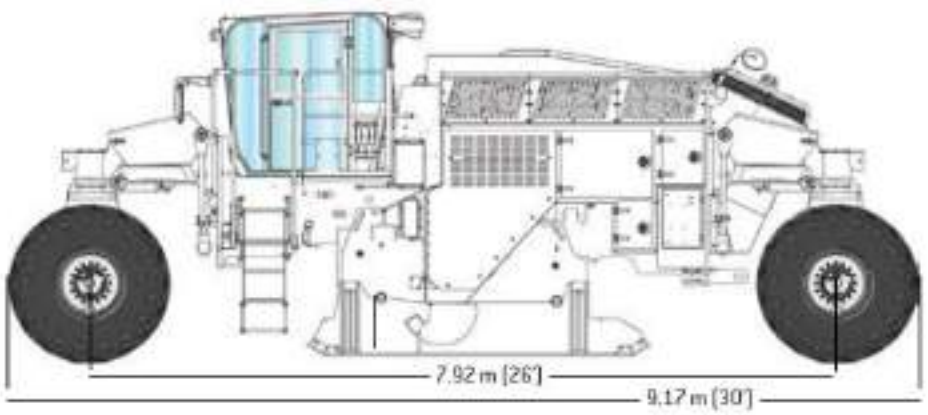
Cutter System Features

Cutter System
- Multi-groove v-belts
- Hydraulic clutch
- Planetary gearbox final drive with auto belt tension
- Right-hand flush cut
- Cutting width.....2.44 m (96")
- Cutting depth.....406 mm (16")
  with 1.27m drum(50")
- Max cutting depth.....508 mm (20")
  with 1.47m drum (58")

Cutting Speeds
- Eight cutting speeds
- 119 RPM, 127 RPM, 131 RPM, 141 RPM, 146 RPM, 156 RPM, 161 RPM, 172 RPM

Cab can side-shift to the right 457 mm (18")
Ground clearance : 406 mm (16")






ASTEC
ROADTEC
SX-6

NOTES



ASTEC™

www.astecindustries.com

All specifications subject to change without notice. Products shown are representative, details may vary. Equipment show with options available at additional cost.

Rev. 9/21