

SF-1700

Machine Specifications

DIESEL ENGINE

Tier 3, 4-cylinder, 4-stroke Cummins QSB4.5 160 hp (119 kw) @ 2,200 rpm
Displacement: 12-volt electric starting system with 130-amp alternator
Fuel Tank Capacity: 95 gallons (432 L)
Engine Oil: 15 qt (17 L)
Fuel Economy: 9.13 gph (34.56 Lph) at 80% of rated hp

DIMENSIONS AND WEIGHT

| | |
|---------------|---|
| Paving Depth | Consult factory for depths greater than 16 in. (406 mm) |
| Paving Width | 9 feet (2.75 m) to 24 feet (7.32 m) |
| Overall Width | 52 inches (1.32 m) wider than paving width |
| Length | 16 feet (4.88 m) |
| Weight | 39,000 pounds (17,690 kg) to 45,000 pounds (20,411 kg) |

TRANSPORTATION DIMENSIONS

| | |
|--------------------|----------------------------|
| Width (Assembled) | 12 feet (3.66 m) |
| Width (Tracks Off) | 8 feet, 6 inches (2.59 m) |
| Height | 7 feet, 10 inches (2.39 m) |

WATER SYSTEM

- Two twin tanks for a total of 220 gallons (832.79 L)
- Hydraulically driven 4 gallons per minute (15.141 Liters per minute) pump delivers 2000 psi (544.3 kpa) for clean-up and utility

TRACK DRIVE SYSTEM

Paving Speed 0-37 feet per minute (11.28 meters per minute)

- 2 heavy duty 12-foot (3.66 m) track systems with 12-inch wide (30.48 cm) triple grouser steel track pads
- Track components with sealed links, 8-roller track frame, lifetime-lubricated rollers, grease gun type hydraulic track tension adjustment
- Triple reduction 138:1 track drive for super smooth travel at slow speed
- Side clearance (edge of slab to outer portion of track) 26 inches (66 cm)

MAINFRAME

- Rigid box frame 39 inches deep (99.06 cm) with 1/2-inch plating (12.7 mm) for more rigidity

POWER DRIVE SYSTEM

- Engine flywheel mounted pump drive gear box with hydraulic pumps flange-mounted and spline shaft engaged
- Variable volume pressure compensated pump for vibrator and machine system; maximum of 64 gallons per minute (242.26 Liters per minute)
- Speed controlled functions remain at set flow rate regardless of changes in working load pressure, for smooth, even extrusion of concrete

HYDRAULIC OIL/FILTRATION

- 185-gallon (841 L) main hydraulic reservoir with visual fluid indicator
- Filtration system with three sump filters and three 10-micron spin-on filters

GRADE CONTROL

- Automatic machine elevation by electrical controls through electronic sensors and referenced through 4 sensor units
- Hardware for dual string-line control (4 corners) or "lock to grade" referencing
- Dual cross slope sensor control for single stringline paving

ELEVATION CONTROL

Manual or automatic

STEERING

- Manual or automatic
- Counter rotation in manual mode
- Fully proportional sensing system for automatic steering control
- Electrical connections for right-hand or left-hand steering reference

OPERATOR'S CONSOLE

- Pressure gauges for all systems
- Master switch for synchronized start and stop of all paving functions
- Engine controls and monitoring devices

SPREADER AUGER

- 16-inch (40.64 cm) diameter split, reversible auger with hard-surfaced flighting
- Each side independently driven by constant volume, heavy-duty 29.9 cubic inch (489.97 cc) hydraulic motor with 3.27:1 reduction
- Adjustable height

HYDRAULIC STRIKE-OFF

- Operator controlled for metering concrete flow to enclosed vibrator and tamper section in front of profile pan
- Sections telescope for width adjustment

HYDRAULIC VIBRATORS

- Rated at 10,000 rpm at 4 gallons per minute (15.14 Liters per minute)
- 8 vibrators standard with individual pressure compensated flow control valves
- Operator controlled hydraulic vertical lift
- Removable baffle plates between vibrators for use on super elevations

PAVING PAN

- 46 inches (1.2 m) long with power crown
- Over-built edges to compensate for edge slump
- Tracks and side forms adjust for running with both tracks on the ground, or one or both tracks on adjacent slab
- Curb mold inserts installed quickly

OPTIONAL EQUIPMENT

- Extension kits to 24 feet (7.3 m)
- Additional hydraulic vibrators
- Additional four bank vibrator control manifolds
- Integral curb molds made to order
- Center bar inserter
- Urethane track pads
- Quarter point bar inserters
- Manual side bar inserter (per side)
- Hydraulic side bar inserter
- Hydraulic belt finisher
- Automatic reverse steering
- Hydraulic in/out up/down side forms
- Pan crown lineal indicator
- GPS/3D Package available
- Lock package for vandalism protection

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Machine Feature Highlights

▲ Retractable Side Forms

- Side forms can be pulled off the pan to position the machine over the previous day's pour or existing pavement.
- Once the machine is in place, the side forms can be brought back in for a perfectly aligned transition from existing concrete to new.
- This process results in a higher-quality pavement and a smoother ride for vehicles using the road.



Side form shown withdrawn.

▲ White Topping

- The SF-1700 is great for pouring white topping due to its minimal side clearance requirements, 0.66 meters (26 in.) on each side.
- Power Paver 3.66m (12 ft) tracks provide stable weight distribution and traction resulting in an extremely accurate paving process.
- The compact design of the machine's frame minimizes flex so the paving pan is as accurate as possible. It's size allows quick and smooth adjustments, making it a perfect choice for white topping accuracy.



Paving a thin layer of white topping over asphalt.

