

SEM
TRACK TYPE TRACTOR

SEM 826F



Contents

Key Features	1-5
Major Parameters	6
Dimensions	7
Machine Applications	8
Standard Equipment	9
Optional Equipment	9
Mandatory attachment	9

826F features the new F series design and is powered by the Weichai WP12 T3 engine, delivering a gross power of up to 216 kW (289 hp). The machine employs an electronically controlled hydrostatic transmission system, enhancing productivity and maneuverability. It offers various track shoe widths from 560 mm to 915 mm and multiple blade options, including SU, S, U, Waste Handling, and Forest blades. Rear equipment options include multi-shank ripper, single shank ripper, and winch to meet diverse customer needs.



Proven Performance

- Boost productivity with fully hydrostatic transmission.
- Counter rotations, power turn and infinitely variable speed.
- Hydraulic demand fan as standard for better efficiency.
- Better balance and stability with the gravity optimization.
- Robust and more powerful electronic controlled engine delivers a longer maintenance interval.

Comfortable Operation

- Spacious cab with easy-to-operate controls.
- Stylish design from the new F series.
- Six-way adjustable seat for quick customization according to the operator's preferences.
- Exceptional visibility for enhanced on-site awareness.
- 8' LCD display with a great view of machine status and settings.

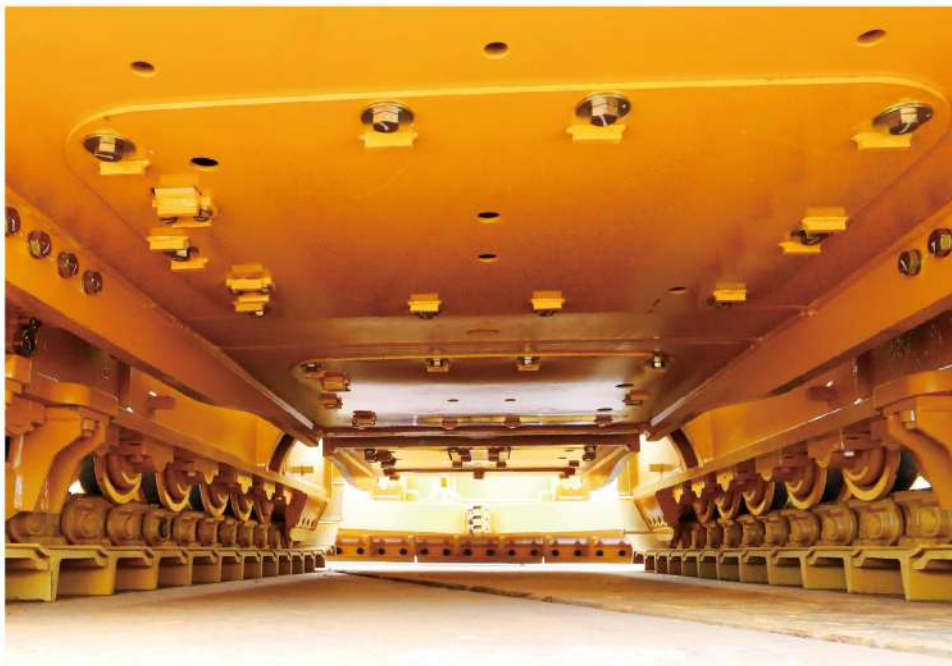
Exceptional Reliability

- World class original pump and motor.
- Blades with high tensile strength steel and strong box-section design.
- Reinforced structures, analyzed using Finite Element Analysis (FEA).
- Final drive with double-stage reduction and wet type brake.
- Modular cooling system designed to endure -40°C to +45°C ambient temperatures.



1 Enhanced Reliability

- Dual-path, hydrostatic drive system with electronic control technology from a world-class supplier delivers industry-leading reliability.
- The Weichai electronic controlled engine which is powerful enough, offers classic durability and dependability.
- Final drive adopts a double-stage reduction combining spur gear and planetary structure for high transmission efficiency to ensure a longer lifespan.
- Machine structures are analyzed using Finite Element Analysis (FEA) and On Machine Stress Analysis (OMSA) to identify and reinforce high-stress areas.
- Equalizer bar and pivot shaft are pinned to the one-piece Track Roller Frame, along with three segmentation spring recoil system minimize impacts and prolong the undercarriage's life.
- Wet type multi-disc brake system, delivers exceptional reliability and high braking performance, even under challenging operating conditions.





2

Outstanding Versatility and Productivity

- Compared to powershift machines, Caterpillar's proven hydrostatic transmission load-sensing system delivers heightened productivity.
- Achieve seamless operations with functions like infinitely variable speed, counter rotation, and power turn, ensuring improved operational efficiency.
- The hydraulic implementation system with pilot control helps adding operator comfort and precise control.
- Modular and single-plane cooling system can endure extreme ambient temperatures ranging from -40°C to +45°C While offering superior fuel efficiency.
- Hydraulic demand fan as standard with reverse function can result in up to 10% more efficiency and efficient cleaning of the engine and cooling system.
- Machine CG (Center of the Gravity) optimization to better improve stability.

3

Enhanced Operating Comfort

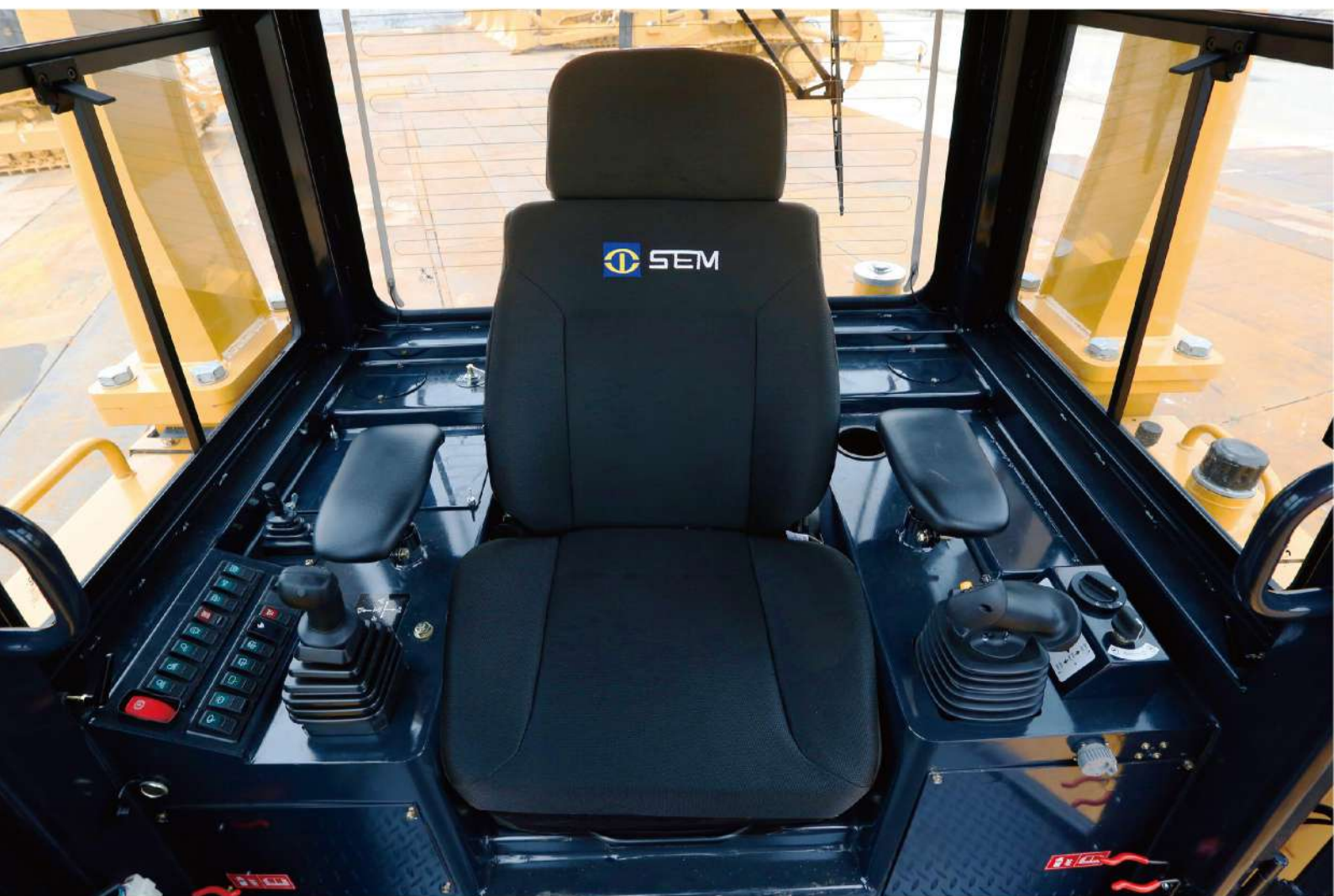
- Ample cabin space and fabric-covered seat offer a welcoming operational environment, delivering exceptional comfort and visibility.
- Single multi-functional joystick ensures precise performance and maneuverability.
- The brand-new F Series showcases a stylish design.
- 8' LCD main display with a great view of machine settings and features is easy to use.
- Exceptional visibility for enhanced on-site awareness.
- LED lights as standard configuration for working better at night.

4

Lower Operation Cost

- Integrated hydrostatic oil tank and hydraulic oil tank allow for longer maintenance intervals and reduced maintenance costs.
- Electric Pressure Override (EPOR) function prevents high-pressure overflow and reduces heat load.





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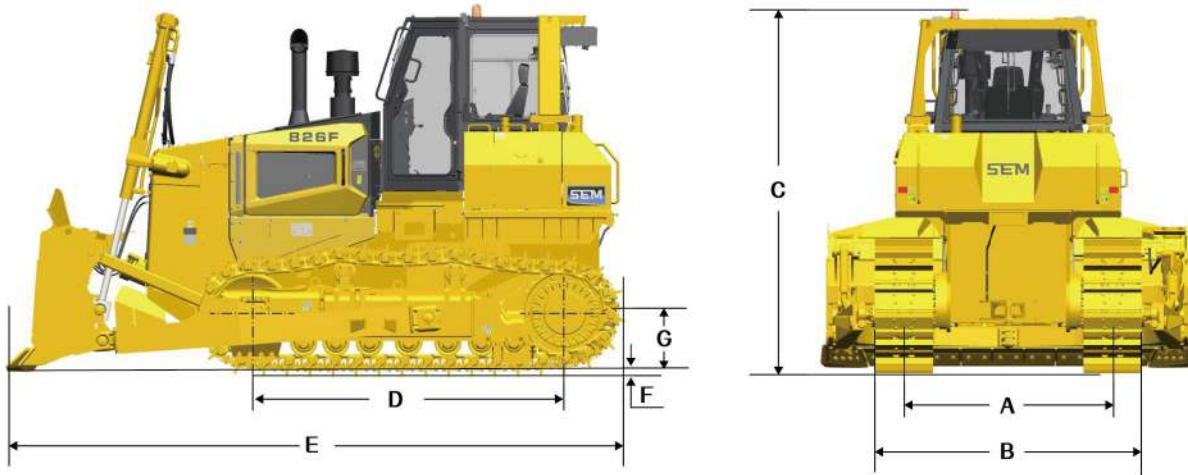
Leading in Class Serviceability

- Maintenance-free and lifetime-lubricated idlers and track/carrier rollers provide simplified servicing, providing real value to our customers.
- The Implement Distribution Valve, featuring a pressure testing port, is installed outside of the hydraulic oil tank for easy access to reduce overall maintenance time.
- Standard diagnostic description on the display covering both the engine and hystat system allows for quick troubleshooting.
- Product link as standard configuration convenient for fleet management.

Major Parameters

Model	SEM826F	SEM826F LGP	SEM826F CH	SEM826F WH	SEM826F FR
Operating Weight with ROPS	24,515 kg	28,210 kg	24,880 kg	28,900 kg	25,780 kg
Ground Pressure (GB/T 30965)	64 kPa	39 kPa	55 kPa	40 kPa	67 kPa
Ground Clearance	400 mm	400 mm	400 mm	400 mm	400 mm
Maximum Slope	30°	30°	30°	30°	30°
Engine					
Model	WeiChai WP12G290E301				
Gross Power (GB/T 17692)	216 kW/289 hp				
Rated Speed	2,200 r/min				
Powertrain					
Type	Dual-path, closed loop electronically controlled hydrostatic drive system				
Travel Speed-F/R	Infinitely variable speeds 0-10 km/h				
Steering & Brake	Hydrostatic steering; wet,multi-disc brake,Bellville spring actuated and hydraulically released				
Undercarriage					
Track Shoe Width	560 mm	910 mm	660 mm	915 mm	560 mm
Track Shoe Quantity (Each side)	40	45	40	45	40
Track Roller Quantity (Each side)	7	8	7	8	7
Carrier Roller Quantity (Each side)	2	2	2	2	2
Hydraulic System					
Type	Center close, Pilot control				
Implement hydraulic System Pressure	19 MPa				
Blades					
Blade Type	SU	S - LGP	U	S - WH	SU w/ Rack
Blade Capacity (ISO 9246)	6.4 m^3	5.5 m^3	7.5 m^3	12.7 m^3	8.6 m^3
Blade Width (w/end bit)	3,605 mm	4,400 mm	3,820 mm	4,400 mm	3,605 mm
Blade Height	1,510 mm	1,350 mm	1,420 mm	1,945 mm	1,830 mm
Max. Blade Digging Depth	1,140 mm	1,165 mm	1,140 mm	1,165 mm	1,140 mm
Max. Blade Lift Ground Clearance	570 mm	665 mm	570 mm	665 mm	570 mm
Blade Tilt Height (middle hole)	520 mm	640 mm	550 mm	640 mm	520 mm
Minimum Steering Radius	4,215 mm	4,300 mm	4,500 mm	4,300 mm	4,215 mm
Multiple Shank Ripper					
Type	Parallelogram	/	Parallelogram	/	Parallelogram
Maximum Penetration (Top hole)	860 mm	/	860 mm	/	860 mm
Maximum Clearance Under Tip (Bottom hole)	640 mm	/	640 mm	/	640 mm
Weight (include three valve hyd system, remove drawbar)	2,445 kg	/	2,445 kg	/	2,445 kg
Single Shank Ripper					
Type	Parallelogram	/	Parallelogram	/	Parallelogram
Maximum Penetration (Top hole)	737 mm	/	737 mm	/	737 mm
Maximum Clearance Under Tip (Bottom hole)	742 mm	/	742 mm	/	742 mm
Weight (include four valve hyd system, remove drawbar)	2,320 kg	/	2,320 kg	/	2,320 kg

Dimension



		STD	LGP	DS	CH	WH	FR
A	Track Gauge	2,000 mm	2,340 mm	2,340 mm	2,000 mm	2,340 mm	2,000 mm
B	Width of Tractor, Trunnions Outside	2,880 mm	3,450 mm	3,450 mm	2,880 mm	3,450 mm	2,880 mm
C	Machine Height, w/o Grouser	3,320 mm	3,320 mm	3,765 mm	3,320 mm	3,320 mm	3,475/3,495 mm
	Alarm, w/o Grouser	3,460 mm	3,465 mm	3,460 mm	3,460 mm	3,460 mm	3,460 mm
	Exhaust Stack, w/o Grouser	3,170 mm	3,170 mm	3,170 mm	3,170 mm	3,170 mm	3,170 mm
D	Length of Track on Ground	2,948 mm	3,488 mm	3,488 mm	2,948 mm	3,488 mm	2,948 mm
E	Length of Basic Tractor, w. Drawbar	4,680 mm	4,710 mm	4,680 mm	4,680 mm	4,965 mm	4,680/4,815 mm
	With Following Attachments, add:						
	SU Blade	1,165 mm	N/A		N/A		
	LGP S Blade	N/A	1,300 mm	1,310 mm	N/A		
	U Blade	N/A	N/A		1,430 mm		
	WH Blade	N/A			N/A	1,305 mm	
	FR SU Blade	N/A	N/A		N/A		1,170 mm
	Ripper	1,615 mm	N/A	N/A	1,615 mm	N/A	1,615 mm
F	Grouser Bar Height	70 mm	107 mm	70 mm	70 mm	70 mm	70 mm
G	Drawbar Height (Pin Center)	525 mm	525 mm	525 mm	525 mm	525 mm	525 mm



The target applications for the 826F is dozing, grading, stockpiling, spreading and ripping, and the target customer industries had been extended to general & heavy construction, road construction, mining, coal handling, waste handling and forest.



Standard Equipment

POWERTRAIN

- Coupling GP
- Hystat GP

HYDRAULICS

- Hydraulic Implement
- Pilot GP

LFB

- Fuel Tank
- HYD Tank
- Engine Hood

OPERATOR ENVIRONMENT

- Rops Cab
- Console Group
- Seat
- Pedal Group
- Air Fresher
- HVAC
- Radio
- Beacon

COOLING

- Cooling GP
- Pipe GP Cooling

FRAMES

- Case Frame

OTHERS

- Decal GP Warning
- Product Link

Optional Equipment

HEATER GP

- Coolant Heater

FIRE SUPPRESSION

- Extinguisher, 2 Set

ELECTRICAL

- Product Link

FRONT PROTECTIONS

- Sandblast, DS

Mandatory Attachment

ENGINE

- Engine
- Engine, CH

FINAL DRIVE

- Final Drive, STD
- Final Drive, LGP
- Final Drive, WH

TRACK ROLLER FRAME

- TRF, STD
- TRF, STD_HD
- TRF, LGP
- TRF, WHA

TRACKS

- Track, 560 mm, 40 SG
- Track, 560 mm, 40 SG SALT
- Track, 660 mm, 40 SG
- Track, 910 mm, 45 APEX
- Track, 915 mm, 45 SG
- Track, 915 mm, 45 SG_TRAP

STARTERS

- Starter, Normal
- Starter, Cold

LIGHTING

- Work Lights, LED, 6
- Work Lights, LED, 6, FR

DOOR GLASS

- Door, STD
- Door, Wiper

CAB ARRANGEMENT

- Cab, ROPs
- Cab, FR

ELECTRICAL

- Electrical, STD
- Electrical, FR

REAR ATTACHMENT

- Drawbar
- Ripper
- Ripper Ready
- Winch Ready
- Striker

AIR FRESHER

- Air Fresher,
- Air Fresher, Non

RADIATOR GUARD

- Radiator Guard
- Radiator Guard. CH
- Radiator Guard. FR

BOTTOM GUARD

- Bottom Guard
- Bottom Guard. CH
- Bottom Guard. FR

TANK

- Tank
- Tank, FR

BLADES

- Semi-U
- S Type
- U Type
- Coal Handling
- SU Type, Forest
- S Type, LGP
- Waste Handling Blade

PUSH ARMS

- Push Arm, STD
- Push Arm, LGP

FAN HYDRAULICS

- Fan, STD
- Fan, Cold Start

*Select one from each group. Mandatory and optional equipment may vary. Consult your dealer for specifics.

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