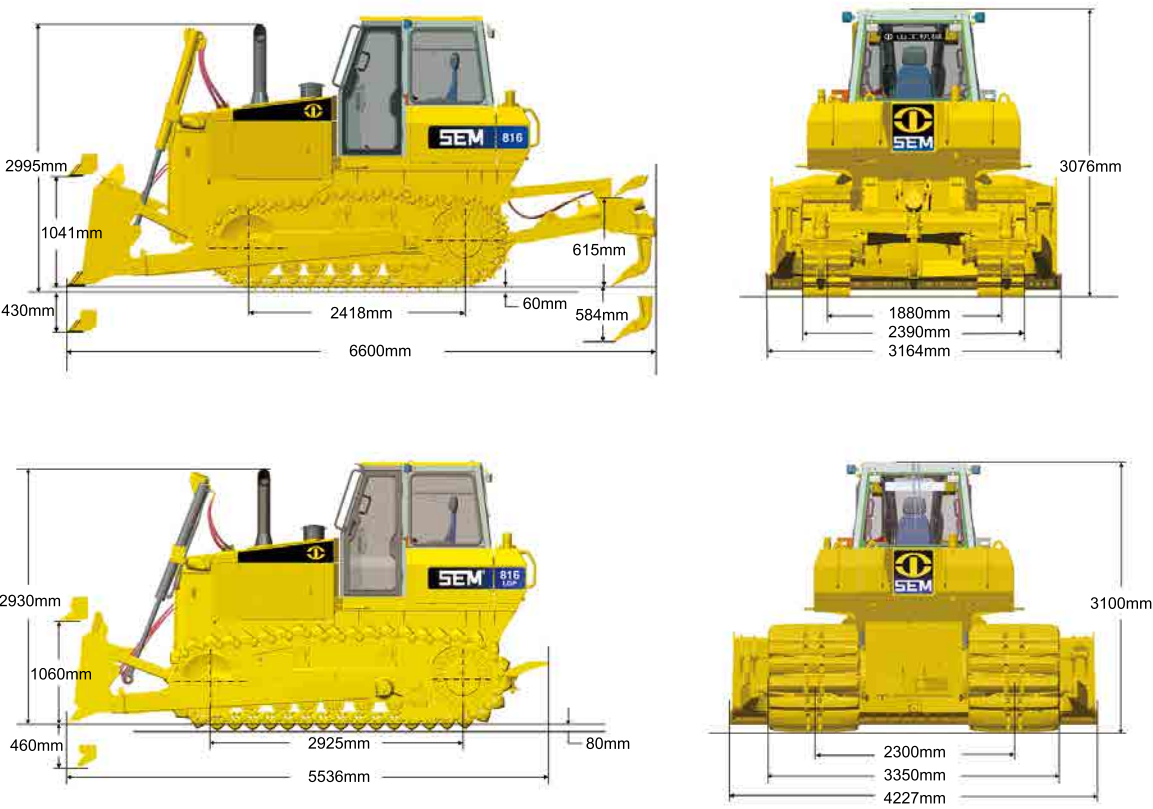
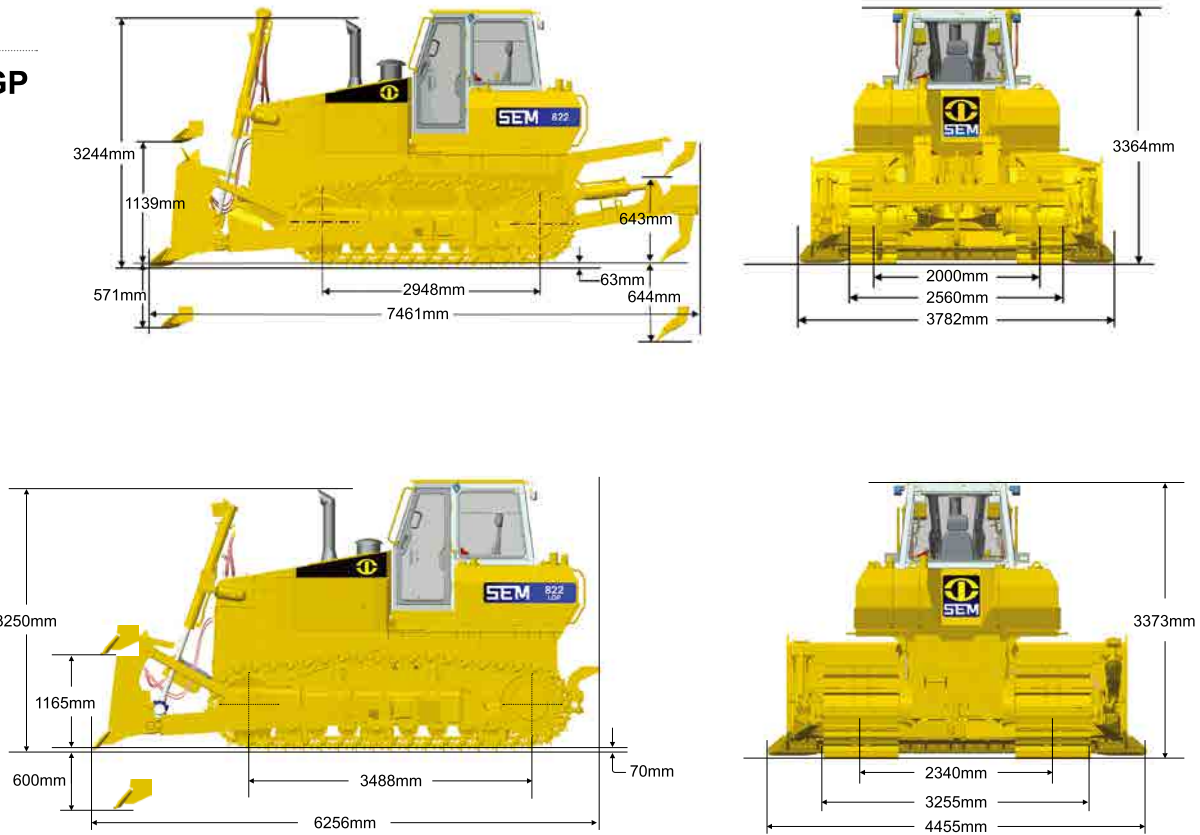


Dimensions

SEM816
SEM816LGP



SEM822
SEM822LGP



Main Specification for SEM816 & SEM822

| Model | SEM816 | SEM816LGP | SEM822 | SEM822LGP |
|-------------------------------------|--|--------------------------------------|--|--------------------------------------|
| Operating Weight | 17,230 kg | 19,720 kg | 23,680 kg | 25,400 kg |
| Ground Pressure | 68 kPa | 31.5 kPa | 70 kPa | 39 kPa |
| Ground Clearance | 410 mm | 435 mm | 394 mm | 394 mm |
| Max.Slope | 30° | 30° | 30° | 30° |
| Engine | | | | |
| Model | Weichai WD10G178E25 | Weichai WD10G178E25 | Weichai WD12G240E26 | Weichai WD12G240E26 |
| Flywheel Power | 120 kW / 160 hp | 120 kW / 160 hp | 162 kW / 220 hp | 162 kW / 220 hp |
| Working Tool | | | | |
| Blade Type | SU (S Blade is Option) | S | SU (U Blade is Option) | S |
| Blade Capacity | 4.3 m³ (S 3.4 m³) | 3.4 m³ | 6.4 m³ (U 7.5 m³) | 5.5 m³ |
| Blade Width | 3,140 mm (S 3,490mm) | 4,227 mm | 3,720 mm (U 4,015 mm) | 4,617 mm |
| Blade height | 1,240mm (S 1,165mm) | 1,000mm | 1,511 mm (U 1,420 mm) | 1,345 mm |
| Max. Blade Digging Depth | 430 mm | 470 mm | 563 mm | 600 mm |
| Max. Blade Lift Ground Clearance | 1,041 mm | 1,055 mm | 1,140 mm | 1,165 mm |
| Max.Output Rimpull | 280 kN | 280 kN | 350 kN | 350 kN |
| Maximum Digging Depth Of Ripper | 584 mm | N/A | 650 mm | N/A |
| Maximum Clearance Under Tip | 615 mm | N/A | 640 mm | N/A |
| Powertrain | | | | |
| Type | Electronic control, Dual-path, Hydrostatic Drive | | Electronic control, Dual-path, Hydrostatic Drive | |
| Travel Speed- F/R | 0 - 10 km/hr (Infinitely Variable Speed Control) | | 0 - 11.5 km/hr (Infinitely Variable Speed Control) | |
| Steering & Brake | Hydrostatic Steering, Wet, Multiple-Disc Brakes | | Hydrostatic Steering, Wet, Multiple-Disc Brakes | |
| Minimum Streeing Radius | 3610 mm (Counter-rotated available) | 3,740 mm (Counter-rotated available) | 4,225 mm (Counter-rotated available) | 4,300 mm (Counter-rotated available) |
| Undercarrige | | | | |
| Track Shoe Width | 510 mm | 1,050 mm | 560 mm | 915 mm |
| Track Shoe Quantity | 37 piece | 42 piece | 40 piece | 45 piece |
| Length Of Track On Ground | 2,430 mm | 2,925 mm | 2,948 mm | 3,488 mm |
| Track Gauge | 1,880 mm | 2,300 mm | 2,000 mm | 2,340 mm |
| Track Roller Quantity | 6/Side | 7/Side | 7/Side | 8/Side |
| Carrier Roller Quantity | 2/Side | 2/Side | 2/Side | 2/Side |
| Hydraulic System | | | | |
| Type | Pilot Control | Pilot Control | Pilot Control | Pilot Control |
| Implement Hydraulic System Pressure | 19 Mpa | 19 Mpa | 19 Mpa | 19 Mpa |
| Service Refill Capacities | | | | |
| Cooling system | 45 L | 45 L | 45 L | 45 L |
| Hydrostatic Oil | 40 L | 40 L | 62 L | 62 L |
| Implement Oil | 60 L | 60 L | 110 L | 110 L |
| Fuel | 320 L | 320 L | 460 L | 460 L |
| Pivot Shaft Case (each side) | 1.2 L | 1.2 L | 0.8 L | 0.8 L |

Optional Accessories

| S =Standard, O =Optional, - =#N/A | 816 | 816 LGP | 822 STD | 822 LGP |
|-----------------------------------|-----|---------|---------|---------|
| WDEC (Tier II) | S | S | S | S |
| SU Blade* | S | - | S | - |
| S Blade* | S | S | S | S |
| SG* Shoe | S | O | S | O |
| APEX Shoe | - | S | - | S |
| Carrier Roller | S | S | S | S |
| Track Roller (One Side 7 units) | S | - | S | - |
| Track Roller (One Side 8 units) | - | S | - | S |
| Hystat Powertrain | S | S | S | S |
| Normal Start (>=-20℃) | S | S | S | S |
| STD Cab | S | S | S | S |
| Drawbar | S | S | S | S |
| Cab Heater | S | S | S | S |
| Cab HVAC | S | S | S | S |
| Cold Start | O | O | O | O |
| Cold Weather Oil | O | O | O | O |
| Artic Oil | O | O | O | O |
| Rear Ripper w/3 Teeth | O | - | O | - |
| ROPS & FOPS | O | O | O | O |

*Must Select either S Blade or SU Blade

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Materials and specifications are subject to change without notice. Featured machines in photos may include optional equipment. See your SEM dealer for available options.

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DEALER NAME

Address:
Telephone:
Fax:
Email:
Website:

Dealer Logo Area

SEM816/822
Track Type Tractor



※Featured machines in photos may include optional equipment

SEM816
SEM822

Efficient: The electronically controlled hydrostatic drive system and multi functional joystick provide high levels of performance and maneuverability.

Comfortable Operation: The cabin is economically designed for increased operator comfort and visibility. The advanced monitoring system tracks machine operating conditions and keeps the operator informed of all vital machines functions.

Reliable: The proven hydrostat design along with world class pump and motors provide a highly reliable tractor. The undercarriage components are designed for longer life versus the leading competitor.

Serviceability: The SEM816 is designed for safe and easy access to reduce overall maintenance time. The machines electronic control model allows for quick troubleshooting.

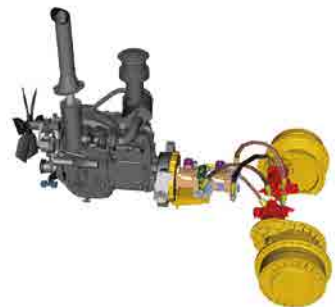
<http://www.semmachinery.com/en-en/>



SEM816/822



Hydrostatic Drive System



Hydrostatic drive with electronic control technology

- Hydrostatic system delivers higher efficiency and maximum output traction force of 280KN.
- Maintenance costs are reduced by 60% when compared to competitors with torque converter and transmission design.
- Counter-rotation and power turn feature delivers excellent maneuverability on job sites.

Comfortable Operation



- **Counter-rotation**—move joystick left/right to end, realize counter-rotation.
- **Power turn**—automated manner, more powerful turn when loaded.
- **Cruise control**—Press yellow button 5 seconds can set travel speed automation work, make operation easy.

- Multiple function operator joystick allows for counter-rotation, power turn and cruise control.
- Pilot joystick control provides comfortable precise blade operation.

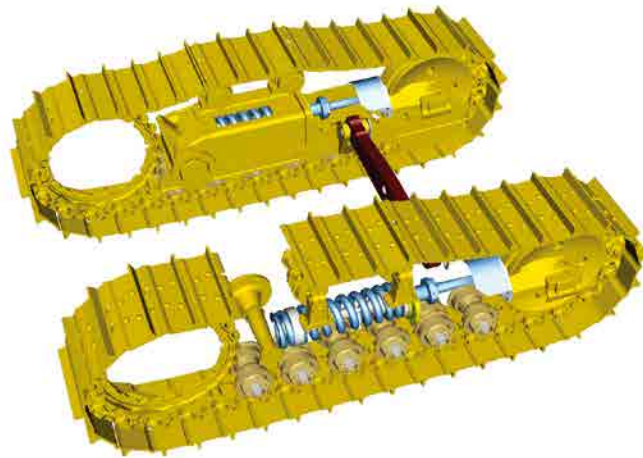
Semi-Universal Blade



Semi-Universal (SU) blade

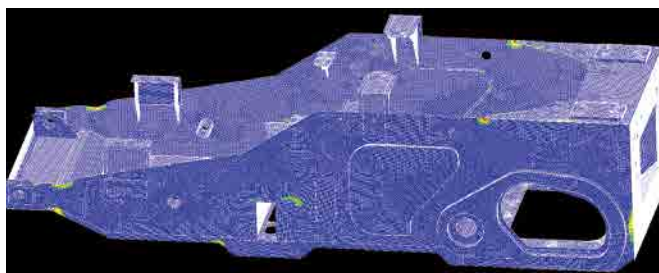
- SU blade combines the best between straight and universal, both S blade excellent penetration and U blade high capacity features.
- 4.3m³ design for superior load retention and penetration in tightly packed materials.
- L-shaped push arms bring the blade closer to the machine, providing excellent maneuverability, balance and blade penetration.
- Blade designs feature a strong box-section design, made from steel with high tensile strength to stand up to the most severe applications.

Undercarriage



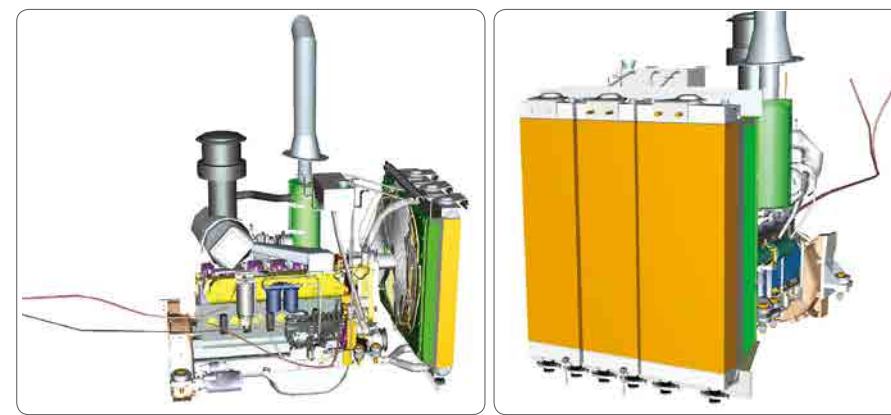
- Undercarriage provided by a world class supplier ensures high reliability and resistance to wear.
- Carrier rollers, track rollers and idle rollers all maintenance free design.
- Planetary final drive design delivers increased torque ratio for higher transmission efficiency and lower maintenance cost.
- Durable final drive bearings and multiple wet disc brakes provide reliability, reduces system heat and extends life.

Structures



- Machine structures are analyzed using Finite Element Analysis (FEA) and On Machine Stress Analysis (OMSA) to identify and protect high stress areas.
- Advanced structure welding technique, relieving welding stress.

Modular Radiator



- New advanced cooling system designed to meet -43°C to +50°C ambient temperature capability.
- Modular designed radiator, easy to maintain, remove and repair.
- Radiator grill provides better heat dissipation, easy access for maintenance.

Maintenance



- Electronic Control Module (ECM) fault diagnosis system, automatic diagnosis 8 key parameters.
- Monitoring system provides three levels of alarm, to indicate fault diagnosis.
- 2000hrs hydrostat service interval reduces maintenance time by 50%.
- Implement valve mounted outside of hydraulic tank provides easy access to check and service.

Blade Options



Semi-Universal blade
(with hydraulic tilt)

Straight blade

U Blade

Waste Handling Arrangement

Optional Attachments



ROPS/FOPS Cab

Multi-Shank Ripper(3 ripper shanks)

Air Conditioning

Cold Weather / Artic Oils