

Model	SEM	SEM816D 16 900kg		SEM816D DS	SEM816D CH	SEM816D FR		
Operating Weight Ground Pressure	16,9		19,490kg 31 1kPa	19,760kg 34,8kPa	17,160kg 61.8kPa	18,580kg 66.9kPa		
3round Pressure 3round Clearance	410		31.1KPa 410mm	34.869a 410mm	61.889a	410		
Max.Slope	30	r	30*	30"	30"	30		
Engine	145405	4205.35	14/04/00/47/05/26	14/04/00/17/05/26	1000470576	14/04/02	1205.05	
Aodel Rated Power	WD100	kW	131kW	WD10G178E25 131kW	131kW	WD10G 131	178E23	
Norking Tool								
Blade Type Blade Capacity	SU 4.3m3	S 3.5m3	LGP 3.4m3	LGP 3.4m3	U 5.6m3	SU Forestry 6m3	S Forestry 5.8m3	
Blade Width	3,180mm	3.590mm	4,410mm	4,410mm	3,580mm	3,180mm	3.590mm	
Blade height	1,240mm	1,165mm	1,000mm	1,000mm	1,400mm	1,625mm	1,625mm	
Aax. Blade Digging Depth Aax.Blade Lift Ground Clearance	430mm 1.041mm	430mm 1.041mm	470mm 1,055mm	470mm 1,055mm	430mm 1.041mm	430mm 1.041mm	430mm 1.041mm	
Aax.Output Rimpull		1,04 mm	280kN	280kN	280kN	280		
Assimum Digging Depth Of Ripper		584mm 615mm		/	584mm	584		
Maximum Clearance Under Tip Powertrain	615	mm	/	/	615mm	615	mm	
Vpe	1	dual-	path, closed loop ele	ctronically controlle	d hydrostatic drive s	vstem		
Travel Speed–F/R			infinitely	variable speeds 0-	10 km/h			
Steering & Brake /Inimum Streeing Radius	2.64	0mm	hydrostatic	hydrostatic steering; wet.multi-disc brake 3,740mm 3,740mm 3,610mm			3,610mm	
Indercarriage	3,0	omm	3,740000	3,740mm 3,740mm		3,01	3,610mm	
Track Shoe Width-Single	510	mm	/	950mm	560mm	560	mm	
Track Shoe Width-APEX Track Shoe Quantity	3		1,050mm 42	950mm 42	37	/ 37		
Track Shoe Quantity ength Of Track On Ground		7 0mm	42 2.925mm	42 2.925mm	37 2.430mm		7 Úmm	
Track Gauge	1,88	0mm	2,300mm	2,300mm	1,880mm	1,88	Omm	
Track Roller Quantity		5	7	7	6	(5	
Carrier Roller Quantity Hydraulic System		2	2	2	2		2	
Type	1		08	nter close, pilot cont	trol			
Implement Hydraulic System Pressure				19 MPa				
Service Refill Capacities Fuel Tank	32	01	2200	320L	320L	32	04	
Cooling System	4	ŚL.	320L 45L	45L	45L	45	iL.	
Engine Crankcase	2	L	24L	24L 40L	24L 30L	24	il.	
		30L				30L		
		DL	40L					
Hydraulic Tank Pivot Shaft Case (each side)	14	ÖL	40L 140L 1.2L	+0L 140L 1.2L	30L 140L 1.2L	3 14 1.	0L.	
Hydraulic Tank Pivot Sheft Case (each side) Optional Accesso = Standard, 0 - Optional, NA	14	ÖL	140L	140L	140L	14	0L.	
Final Drive (each side) Hydraulic Tank Hydraulic Tank Hydrof Shaft Case (each side) Optional Accessoi S-Standard, O - Optional, - = NA MCE (China Stage II) Sandhard	14 1. ries	ÖL	140L 1.2L	140L 1.2L SEM816D DS S	140L 1.2L SEMBIGC	14	0L.	
Hydraulie Tank Phyot Shaft Case (each side) Optional Accessool S-Standard, O-Celeval,NA WEG (Chron Stage I) Sandhart Sandhart Sandhart Salt Bude	ries	ÖL	140L 1.2L	140L 1.2L SEM816D DS S	140L	14	0L.	
Hydraulis trank Phot Shaft Case (each side) Optional Accessor (Constant Case (each side) (Constant Case (each side)) (Constant Case (each side)) (semanted semanted s	ÖL	140L 1.2L	140L 1.2L SEM816D DS S	140L 1.2L SEM816C S S - - -	14	0L.	
Hodraulic Tank Prvot Shaft Case (each side) Optional Accessory 1=Swineth (3 = Okeneral, = = NA WEC (Chrin Staps)) Jandbatt Sign Ar Clearer 20 Histo	ries	ÖL	140L 1.2L	140L 1.2L SEMITED DS S S S S S S S S S S S S S S S S S S	140L 1.2L SEMBIGC	14	0L.	
Hydraidic Tank Pivot Shaff Case (rach side) Optional Accession instanting of solutions, = = NA WHY Chrons Stag Shaft Chrons Stag Shaft Ac Cases Shaft Sh	semanted semanted s	ÖL	140L 1.2L	140L 1.2L SEM816D DS S	140L 1.2L SEM816C S S - - -	14	OL SEMENEO FR S - - - - - - - - - - - - -	
Hydraid: Tark: Mynd Shaff Case (each side) Optional Accesso Social Control - + 164	14 11 11 11 11 11 11 11 11 11 11 11 11 1	ÖL	140L 1.2L	140L 1.2L SEMITED DS S S S S S S S S S S S S S S S S S S	1401. 1.2L SEM816C 8 - - - - - - - - - - - - - - - - - -	14	0L.	
Hydraid, Tarki, Myd Shafl Case (each side) Optional Accessor Experiment - to homen,INA Work (Chronic Share II) Experiment - to homen,INA Work (Chronic Share II) Experiment - to homen,	semanted semanted s	ÖL	140L 1.2L	140L 1.2L SEMITED DS S S S S S S S S S S S S S S S S S S	140). 1.2). SEM8TBC \$ - - - - - - - - - - - - -	14	0L 2L SEM5/6O FR 8 - - - - - - - - - - - - - - - - - -	
Hotzaki Tank Hove Start Case (sech side) Optional Accession Start Case (sech side) Start Case (sech side) Start Case (sech side) Hotzaki Start	14 11 11 11 11 11 11 11 11 11 11 11 11 1	ÖL	1400.100 1.2. 1.	140L 1.2L SEMI16D DS S S - - - - - - - - - - - - -	1401. 1.2L SEM816C 8 - - - - - - - - - - - - - - - - - -	14	OL 2L SEMBIEO FR 8 - - - - - - - - - - - - - - - - - -	
Hordnake Trave. How Shart Case (such sole) Optional Accessor Control of a Normal	14 11 11 11 11 11 11 11 11 11 11 11 11 1	ÖL	140L 1.2L	1401, 1.21,1	140). 1.2). SEM8TBC \$ - - - - - - - - - - - - -	14	0L 2L SEM5/6O FR 8 - - - - - - - - - - - - - - - - - -	
Hydrau Trek Hydrau Trek Son (2014) Optional Accessor Optional Accessor Optional Accessor Optional Accessor Son Optional Accessor Optional Accessor Son Optional Accessor Optionaccessor Optional Accessor O	14 1. ries Static	ÖL	140, 1.2	140L 12L SEAMTIND DS 3 5 5 - - - - - - - - - - - - -	1401. 121. SEMETEC 8 - - - - - - - - - - - - -	14	01,	
Hydraw Trek Hydraw Trek Optional Accession Control of the second second Control of the second second second second Second Second Second Second Second Second Second Second	14 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ÖL	1400. 1400.	140L 1.2L SEMI16D DS 8 8 - - - - - - - - - - - - -	1401. 1.21. SEMATHOD 8 - - - - - - - - - - - - -	14	01, 22, 35,406,400,478 8 - - - - - - - - - - - - - - - - - -	
Votants Frei Hondre Tare Landen inder Optional Accessor Comments and the second second Comments and the second second second Sec	14 14 5 5 5 5 5 0 0 0 0 - - - - - - - - - - - - -	ÖL	1400 1400 1400 1400 1400 1400 1400 1400	140L 12L 8FM8160D5 8 8 8 9 - - - - - - - - - - - - - - - -	1401 120 SEMATHOE SEMAT	14	01,	
Anguest Train Anguest Train Anguest Train Control and Lace classifier Control and Lace clace classifier Control and Lace classifier	14 1. ries Static	ÖL	140, 1.2, 1.2, 1.2, 1.2, 1.2, 1.2, 1.2, 1.2	140L 12L SEMIND DS \$ \$ - - - - - - - - - - - - -	1401. 1.21. SEMM167 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	14	01. 12. 13. 14. 14. 14. 14. 14. 14. 14. 14	
Vordank Tree Vordank Tree Department Landon under Department Landon under Department Landon under Vordange La	14 14 14 14 14 14 14 14 14 14	ÖL	1400 1400 1400 1400 1400 1400 1400 1400	1401 121 55M 160 D5 3 3 3 - - - - - - - - - - - - -	1401 1401 1.21 SFANTICE	14	01. 22. 23. 24. 24. 25. 25. 25. 25. 25. 25. 25. 25	
Hydraw, Tres. Hydraw, Tres. Hydraw, Tres. Deptional Accessory Conserved Content of the Con	ite ite ries service service - -	ÖL	1402 1.2 	1401 121 221 221 221 221 221 221 2	1401 1401 122	14	01. 22. 23. 24. 24. 25. 25. 25. 25. 25. 25. 25. 25	
Horack Train Horack Train Horack Train Control Table Control Control Table		ÖL	1400 1.2 	140, 12, 5580,00 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	140, 1,2, 1,2, 55,840, 8, 7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7,7	14	0(. 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)	
Hydraw, Frei Hydraw, Frei Kork Start, Case (aces) total Control (Start) Case (aces) total Control (Start) (Start) Control (Start) (Start) Control (Start) (Start) Control (Start) (Start) Control (Start) Cont	ite ite ries service service - -	ÖL	140. 140.	1400, 120, 120, 1400, 14	1401 1401 122	14	01. 22. 23. 24. 24. 25. 25. 25. 25. 25. 25. 25. 25	
Hogan Train Hogan Train Hogan Train Hogan Train Hogan	14 1, 1, 1 1, 1, 1, 1 1, 1, 1, 1 1, 1, 1, 1, 1 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ÖL	140, 1,2,	1401 121 2010 (50 3 3 - - - - - - - - - - - - -	140, 140, 12, 5000000000000000000000000000000000000	14	0(. 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)	
Hoging Fine Hoging Fine Hoging Constraints Optional Accession	14 15 15 15 15 15 15 15 15 15 15 15 15 15	ÖL	H40. 1.2. 5. - 0 5 0 - 0 - 0 - - - - - -	1400, 120, 120, 1400,000 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	142. 12. 13. 14. 15. 15. 15. 14. 14. 15. 14. 14. 14. 14. 14. 14. 14. 14	14	0(. 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)	
Andreage Trans. A	14 1, 1, 1 1, 1, 1, 1 1, 1, 1, 1 1, 1, 1, 1, 1 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ÖL	140. 140.	1401, 121, 121, 1401, 1401, 1400, 14	140, 140, 12, 5000000000000000000000000000000000000	14	01. 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	
typeson, Ten-	14 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	ÖL	High 12. s - <td>1400, 121, 121, 121, 121, 121, 121, 121, 1</td> <td>140, 140, 12, 5000000000000000000000000000000000000</td> <td>14</td> <td>DL JL JL JL JL JL JL JL JL JL J</td>	1400, 121, 121, 121, 121, 121, 121, 121, 1	140, 140, 12, 5000000000000000000000000000000000000	14	DL JL JL JL JL JL JL JL JL JL J	
Andreage Trans. A	14 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	ÖL	High 12. s - <td>1400, 121, 121, 121, 121, 121, 121, 121, 1</td> <td>140, 140, 12, 5000000000000000000000000000000000000</td> <td>14</td> <td>DL JL JL JL JL JL JL JL JL JL J</td>	1400, 121, 121, 121, 121, 121, 121, 121, 1	140, 140, 12, 5000000000000000000000000000000000000	14	DL JL JL JL JL JL JL JL JL JL J	
	14 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	ÖL	High 12. s - <td>1400, 121, 121, 121, 121, 121, 121, 121, 1</td> <td>140, 140, 12, 5000000000000000000000000000000000000</td> <td>14</td> <td>DL JL JL JL JL JL JL JL JL JL J</td>	1400, 121, 121, 121, 121, 121, 121, 121, 1	140, 140, 12, 5000000000000000000000000000000000000	14	DL JL JL JL JL JL JL JL JL JL J	
Andreas Trans Andreas Trans Andreas Trans Andreas	14 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	ÖL	High 12. s - <td>1400, 121, 121, 121, 121, 121, 121, 121, 1</td> <td>140, 140, 12, 5000000000000000000000000000000000000</td> <td>14</td> <td>DL JL JL JL JL JL JL JL JL JL J</td>	1400, 121, 121, 121, 121, 121, 121, 121, 1	140, 140, 12, 5000000000000000000000000000000000000	14	DL JL JL JL JL JL JL JL JL JL J	
	14 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	ÖL	Hag 1.2. <		140. 1.3. 540000 540000 540000 540000000000	14	ΛL ΛL RL 8 - -	
Hydraw, Tres. Hydraw, Tres. Hydraw, Tres. Hydraw, Tres. Hydraw, Tres. Hydraw, Tarsen, Marken,	14 1 1 1 1 1 1 1 1 1 1 1 1 1	ÖL	H40. 12.			14	ΛL ΛL RL 8 - -	
	14 1 1 1 1 1 1 1 1 1 1 1 1 1	ÖL	H40. 12.			14	ΛL ΛL RL 8 - -	

SEMI316D Track Type Tractor



SEM816D
Fifcient: The electronically controlled hydrostatic drive system and multi functional joystick provide high levels of performance and maneuverability.
Confortable Operation: The cashin is expondingly designed for increased operator comfort and visibility. The advanced monitoring system tracks machine operating conditions and keeps the operator informed of al vial machines functions.
Reliable: The proven hydrostatid 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 SEM tractors are designed for easy access to reduce overall maintenance time. The machines electronic control module allows for quick troubleshooting.

Website http://www.semmachinery.com



Cat[®] Product Link™

Cat[®] Product Link™ will support your business, and accurately convey information of the equipment to relevant personnel in a timely and effective manner for your better equipment management.



Hydrostatic Drive System



Upgraded hydrostatic system not only leverages Caterpillar automatic, dual path, hydrostatic drive with electronic control technology of the third generation TTT, but also increases efficiency and reliability.

 Adopt Rexroft German new generation one case drive pump to combine control valve, track motor, simplified hose line design, continue to increase the reliability.
 Caterpiliar high pressure hose provides reliability and durability. Caterpiliar control technology provides accurate control and high transmission efficiency.
 Integrated the hydrostatic oil tank and implement hydraulic oil tank to improve filtrated precision and cooling capability of hydraulic system, increasing reliability and reducing maintenance cost.

- Maintenance costs are reduced by 60% when compared competitors with torque converter and transmission and rear axle.
- Counter rotation, power turn and infinitely variable speed save lots of time, increasing working efficiency.

Comfortable Operation



- Counter rotation—Tracks counter rotate to provide best in class maneuverability.
- Powered turn —Machine maintains full power through turns to increase productivity.
 Gruise control—Operators can retain previous speed settings which makes operation easily.
- orase control—operators carrietam previous speed settings which makes operation
- Multi-function joystick allows for counter-rotation, powered turn and cruise control.
 Pilot joystick control provides comfortable precise blade operation.

Semi-Universal Blade



Semi-Universal (SU) blade

SU blade combines the excellent penetration of the S blade and the high production capacity of the U blade.
 Designed for superior load retention and penetration in tiohtly packed materials.

L-shaped push arms bring the blade closer to the machine, providing excellent maneuverability, balance and blade
 penetration

Blades feature a strong box section design, made from high tensile strength steel to stand up to the most severe applications.

stress.

Jndercarriage



Undercarriage is provided by China industry expert ensures high reliability and resistance to wear. Carrier rollers, track rollers and idle rollers are all maintenance free.

 Planetary final drive design delivers increased torque ratio for higher transmission efficiency and lower maintenance cost.
 Durable final drive bearings and multiple wet

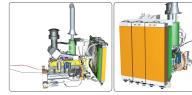
disc brakes provide reliability, reduce system heat and extend overall life.

tructures



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

Modular Radiator



 New advanced cooling system designed to meet -40°C to +50°C ambient temperatures 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 of eight key parameters.
- Monitoring system provides three levels of alarm, to indicate fault diagnosis.
- Hydrostatic system has longer service interval (2000 hrs), reduces maintenance time by 50%.
- Implement valve mounted outside of hydraulic tank provides easy access to check and service.

Blade Options



Optional Attachment



