

Case Construction Wheeled Excavators

		WX148	WX168	WX188	WX218
ENGINE					
Net engine power (ISO 14396/ECE R120)		90 kW / 121 hp	105 kW / 141 hp	118 kW / 158 hp	129 kW / 173 hp
Rated	rpm	2000	2000	2000	2000
Make and model		F4GE9484D J601	F4GE9684F J602	F4GE9684E J607	F4GE9684G J666
Type		Water-cooled, direct injection type diesel engine with intercooler turbo-charger	Water-cooled, 6 cylinder direct injection type diesel engine with intercooler turbo-charger	Water-cooled, direct injection type diesel engine with intercooler turbo-charger	Water-cooled, 6 cylinder direct injection type diesel engine with intercooler turbo-charger
Displacement	l	4.5	6.7	6.7	6,728
Number of cylinders		4	6	6	6
Bore x stroke	mm	104 x 132	104 x 132	104 x 132	104 x 132
Maximum torque at 1200 rpm	Nm	525	575	670	745
ELECTRICAL SYSTEM					
Voltage	V	24	24	24	24
Batteries	V	2 x 12	2 x 12	2 x 12	2 x 12
Battery rating (each)	Ah	100	100	100	100
Alternator	A	70	70	70	70
Starter motor	kW	4	4	4	4
TRANSMISSION					
Max Road travel speed	km/h	20 - 35	20 - 35	20 - 35	20 - 35
Max Field travel speed	km/h	5 - 8	5 - 8	5 - 8	5 - 9
Creep speed	km/h	2.5 - 2.5	2.5 - 2.5	2.5 - 2.5	2.9 - 2.9
Maximum drawbar pull (field)	kN	92	92	115	121

		WX148	WX168	WX188	WX218
		Power Shift multi-disc gearbox shiftable under load. Automatic or manual gear shift control. Travel mode automatically engaged by pressing accelerator pedal.	Power Shift multi-disc gearbox shiftable under load. Automatic or manual gear shift control. Travel mode automatically engaged by pressing accelerator pedal.	Power Shift multi-disc gearbox shiftable under load. Automatic or manual gear shift control. Travel mode automatically engaged by pressing accelerator pedal.	Power Shift multi-disc gearbox shiftable under load. Automatic or manual gear shift control. Travel mode automatically engaged by pressing accelerator pedal.
HYDRAULIC SYSTEM					
2 x Primary pumps		3 variable displacement, axial piston			
Total maximum flow	l/min	352 (2 x 140 + 72)	360 (2 x 144 + 72)	389 (2 x 144 + 101)	512 l/min (2 x 203 + 106)
Auxiliary low flow, optional (on/off)	l/min	22	22	22	22
Auxiliary medium flow, optional (proportional)	l/min	80	80	80	80
Implement /travel pressure	bar	340/370	340/370	340 / 370	340 / 370
Power Boost	bar	370	370	370	370
Swing circuit pressure	bar	360/390	370/390	360 / 390	360 / 390
Pilot pump	bar	45	45	45	45
Boom cylinder mono	mm	100 x 1028	110 x 1170	115 x 1170	120 x 1290
Boom cylinder 2-piece boom	mm	100 x 972	110 x 1020	115 x 1020	120 x 990
Arm cylinder	mm	115 x 1120	115 x 1290	125 x 1290	135 x 1560
Bucket cylinder	mm	95 x 903	100 x 1025	105 x 1025	120 x 1080

		WX148	WX168	WX188	WX218
Positioning cylinder	mm	135 x 645	155 x 745	155 x 745	170 x 640
		<p>Cylinder end stroke damping. Electrohydraulic servo-control. Cylinder end stroke damping. Electrohydraulic servo-control. Three-pump hydraulics with two main pumps and separate swing pump. 8 selectable power stages with permanent Power Boost in lift stages: Low idle, Lift 1, Lift 2, Eco 1, Eco 2, Eco 3, Heavy, Roadtravel. Adjustable swing acceleration (power) and deceleration (brake). Automatic power increase in the drive mode.</p>	<p>Cylinder end stroke damping. Electrohydraulic servo-control. Three-pump hydraulics with two main pumps and separate swing pump. 8 selectable power stages with permanent Power Boost in lift stages: Low idle, Lift 1, Lift 2, Eco 1, Eco 2, Eco 3, Heavy, Roadtravel. Adjustable swing acceleration (power) and deceleration (brake). Automatic power increase in the drive mode.</p>	<p>Cylinder end stroke damping. Electrohydraulic servo-control. Three-pump hydraulics with two main pumps and separate swing pump. 8 selectable power stages with permanent Power Boost in lift stages: Low idle, Lift 1, Lift 2, Eco 1, Eco 2, Eco 3, Heavy, Roadtravel. Adjustable swing acceleration (power) and deceleration (brake). Automatic power increase in the drive mode.</p>	<p>Cylinder end stroke damping. Electrohydraulic servo-control. Three-pump hydraulics with two main pumps and separate swing pump. 8 selectable power stages with permanent Power Boost in lift stages: Low idle, Lift 1, Lift 2, Eco 1, Eco 2, Eco 3, Heavy, Roadtravel. Adjustable swing acceleration (power) and deceleration (brake). Automatic power increase in the drive mode.</p>
SWING DRIVE					
Swing speed	rpm	9	8.6	9	9
Swing torque (SAE J1371)	kNm	36	42.4	53	58

		WX148	WX168	WX188	WX218
		The swing function is operated by a hydraulic closed circuit coupled with a mechanical reducer integrating an automatic static brake. The hydro-static swing brake is adjustable in 3 settings.	The swing function is operated by a hydraulic closed circuit coupled with a mechanical reducer integrating an automatic static brake. The hydro-static swing brake is adjustable in 3 settings.	The swing function is operated by a hydraulic closed circuit coupled with a mechanical reducer integrating an automatic static brake. The hydrostatic swing brake is adjustable in 3 settings.	The swing function is operated by a hydraulic closed circuit coupled with a mechanical reducer integrating an automatic static brake. The hydrostatic swing brake is adjustable in 3 settings.
BRAKES					
Service brakes		play free, oil bath multi disc type integrated in all four wheel hubs.	play free, oil bath multi disc type integrated in all four wheel hubs	play free, oil bath multi disc type integrated in all four wheel hubs	play free, oil bath multi disc type integrated in all four wheel hubs
Work brake		acts on service brakes and locks front axle oscillation	acts on service brakes and locks front axle oscillation.	acts on service brakes and locks front axle oscillation.	acts on service brakes and locks front axle oscillation.
Parking brake		spring type mechanical acting on the transmission	spring type mechanical acting on the transmission.	spring type mechanical acting on the transmission.	spring type mechanical acting on the transmission.
Emergency brake		double braking circuit and automatic parking and brake actuation with the engine shut down.	double braking circuit and automatic parking and brake actuation with the engine shut down.	double braking circuit and automatic parking and brake actuation with the engine shut down.	double braking circuit and automatic parking and brake actuation with the engine shut down.
STEERING					

		WX148	WX168	WX188	WX218
Type		ORBITROL with safety valve			
Pump		gear type	gear type	gear type	gear type
Steering cylinder		double effect, integrated in axle			
TYRES					
Twin tyres		10.00-20/80-22.5	10.00-20/80-22.5	10.00-20/80-22.5	10.00-20/11.00-20
Single tyres		18R 19.5, 600/40-22.5	18R 19.5, 600/40-22.5	18R 19.5, 600/40-22.5	18 -22.5/600-40-22.5/620-40-22.5
		Tyre availability can be limited by local homologation.	Tyre availability can be limited by local homologation.	Tyre availability can be limited by local homologation.	Tyre availability can be limited by local homologation.
CAPACITIES					
Engine oil	l	12.5	15	15	8/15
Cooling system	l	22	22	22	11
Fuel tank	l	190	274	274	296
Hydraulic system (incl. tank)	l	200 for mono 210 for triple articulation	215 for mono 230 for triple articulation	235 for mono 250 for triple articulation	270 for mono 290 for triple articulation