

Case Construction Equipment Crawler Dozers

		1150M	1650M	2050M
ENGINE				
Model		Case Family 4, F4HFE613Z*A005 Tier 4 Interim	Case Family 4, F4HFE613Z*A008 Tier 4 Interim	Case Family 4, F4HFE613W*A004 Tier 4 Interim
Cylinders		6	6	6
Displacement	l	6.7	6.7	6.7
Fuel injection		Direct	Direct common rail	Direct common rail
Fuel filter		Spin-on w/ in-line strainer	Spin-on w/ in-line strainer	Spin-on w/ in-line strainer
Air intake		Cross-flow	Cross-flow	Cross-flow
Cooling		Liquid	Liquid	Liquid
Engine speeds		RPM	RPM	RPM
High idle – no load		2200 +/- 50	2200 +/- 50	2200 +/- 50
Rated – full load		2000	2000	2000
Low idle		1100 +/- 25	800 +/- 25	800 +/- 25
Engine rated net power		127 hp - 95 kW @ 2200 rpm	150 hp - 112 kW @ 2200 rpm	214 hp - 160 kW @ 2200 rpm
Engine max net power		138 hp - 103 kW @2200 rpm	164 hp - 122 kW @2200 rpm	232 hp - 173 kW @2200 rpm
Rated net torque	Nm	612	666	1004
Max net torque	Nm	632	726	1082
Engine lubrication				
Pump		Deep sump plate cooler w/ pressurized under-piston nozzles	Deep sump plate cooler w/ pressurized under-piston nozzles	Deep sump plate cooler w/ pressurized under-piston nozzles
Side-to-side		35°	35°	35°
Fore and aft		45°	45°	45°
Radiator				
Core size area (Water Radiator)	m ²	0.26	0.61	0.33
Rows of tubes		25	4	4
Fan				
Diameter	mm	662	700	700
Ratio		0.96:1	hydraulically driven	hydraulically driven
POWERTRAIN				
Dual path hydrostatic				
Pump		Variable axial piston	Variable axial piston	Variable axial piston
Motor		Variable bent axis piston	Variable bent axis piston	Variable bent axis piston
Max. drawbar pull*	kN	213.5	311	372
Transmission		Single lever control electronic straight tracking	Single lever control electronic straight tracking	Single lever control electronic straight tracking
Oil filter		2 micron, spin-on, replaceable	2 micron, spin-on, replaceable	2 micron, spin-on, replaceable
Travel speeds*				
Forward	km/h	0 – 9.3	0 – 9.3	0 – 9.3
Reverse	km/h	0 – 9.3	0 – 9.3	0 – 9.3
Parking brakes		Heavy-duty, spring-applied, hydraulic pressure release	Heavy-duty, spring-applied, hydraulic pressure release	Heavy-duty, spring-applied, hydraulic pressure release
Steering brakes		Hydrostatic	Hydrostatic	Hydrostatic
Final drive		2 helical gear reduction to planetary output	2 helical gear reduction to planetary output	2 helical gear reduction to planetary output
Ratio		61.4:1	61.4:1	48.75 :1
TRANSMISSION COOLING				

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Type		Oil to air	Oil to air	Oil to air
Core size	m ²	0.41	0.31	0.31
ELECTRICAL SYSTEM				
Alternator	amps	120	120	120
Batteries (2)		12-volt, low-maintenance 925 cold-cranking amps @ -18°C	12-volt, low-maintenance 925 cold-cranking amps @ -18°C	12-volt, low-maintenance 1200 cold-cranking amps @ -18°C
HYDRAULICS				
Pump flow @ 2200 rpm	l/min	137	137	160
Max pressure	bar	206	248	248
Lift cylinder™		nr. 2	nr. 2	nr. 2
Bore diameter	mm	108	114.3	114.3
Rod diameter	mm	50.8	63.5	63.5
Stroke	mm	488	428	428
Angle cylinder		nr. 2	nr. 2	nr. 2
Bore diameter	mm	114.3	114	114
Rod diameter		63.5	63.5	63.5
Stroke		465.7	502.7	502.7
Tilt cylinder		nr. 1	nr. 1	nr. 1
Bore diameter		127	127	127
Rod diameter		63.5	63.5	63.5
Stroke		148.3	148.3	148.3
Lift cylinder Bull Dozer				
Bore diameter	mm	-	82.6	82.6
Rod diameter	mm	-	50.8	50.8
Stroke	mm	-	1000	1000
Tilt cylinder Bull Dozer				
Bore diameter	mm	-	114.3	114.3
Rod diameter	mm	-	36.5	36.5
Stroke	mm	-	126	126
SERVICE CAPACITIES				
Fuel tank	l	322	322	405
Ad Blue tank	l	52	52	60
Engine oil w/ filter	l	16.4	16.4	16.4
Engine oil w/o filter	l	15.6	15.6	15.6
Engine cooling system	l	26.5	30.2	30.2
Hydraulic reservoir	l	116.4	160	210
Final drive (per side)	l	14.2	14.2	25
Track rollers (ea)	l	0.275	0.275	0.275
Front idlers (ea)	l	0.225	0.225	0.225
Carrier rollers – each	l	0.334	0.334	0.334
UNDERCARRIAGE				
Track adjustment		Hydraulic	Hydraulic	Hydraulic

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Frame		Oscillating equalizer beam suspension and pivot shaft	Oscillating equalizer beam suspension and pivot shaft	Oscillating equalizer beam suspension and pivot shaft
Track link pitch	mm	175		
CLT track	mm	-	190	203
CELT track	mm	-	190	203
Track shoe height	mm	52.5	56	71.5
Pin diameter	mm	36.58	38	44
Bushing diameter				
CLT track	mm	62	65	72
CELT track	mm	79	86	93
Track shoes per side				
CLT track		43	45	40 LT / 45 XLT /WT/LGP
CELT track		43	45	40 LT / 45 XLT /WT/LGP
Track rollers per side		7	8	-
LT		-	-	7
XLT/WT-LGP		-	-	8
Carrier rollers per side		2	2	2
Track roller rail diameter	mm	190	171.5	187.5
TRACK ON GROUND - SHOE AREA				
508 mm	cm ²	26323	-	-
559 mm	cm ²	28965	34093	-
610 mm	cm ²	-	37204	32269 LT / 39979 XLT
660 mm	cm ²	34199	49524	-
711 mm	cm ²	-	49524	46599 WT
762 mm	cm ²	39484	-	49941 WT
819 mm	cm ²	-	37204	-
864 mm	cm ²	-	52695	-
914 mm	cm ²	-	-	59904 LGP
BLADE				
Variable blade pitch		55° +/- 5°	55° +/- 5°	55° +/- 5°
Lift speed – per second	mm	503	483	483
Cutting edge		Reversible, replaceable	Reversible, replaceable	Reversible, replaceable
Width	mm	203.2	200	200
Thickness	mm	19.1	20	20
RIPPER				
Max. penetration	mm	478	570	570
Width	mm	1711	1953	1953
Cut	mm	1635	1889	1889
Max. ground clearance	mm	424	592	592
Max. number of shanks		3	3	3

Tooth spacing				
w/3 teeth	mm	785	944	944
Hydraulic cylinder		Double-acting	Double-acting	Double-acting
Diameter	mm	102	155	155
Stroke	mm	254	596	596
Rod	mm	51	69	69

* Measured using standard track chain. Increase travel speeds by 4% and reduce drawbar pull by 4% w/ the optional CELT track chain

GENERAL DIMENSIONS		1150M			1650M			2050M			
		LT (Long Track)	WT (Wide Track)	LGP (Low Ground Pressure)	Bull Dozer Semi-U	Straight PAT	Foldable PAT	Bull Dozer Straight	Bull Dozer Semi-U	Straight PAT	Foldable PAT
BLADES											
Blade width	mm	3048	3353	3353	3322	3302 / 3962	3962	3334 / 3901	3426	3606 / 4064	4064
Blade width in transport position	mm	-	-	-	3322	3096 / 3574	2887	3334 / 3901	3426	3287 / 3690	3023
SAE blade capacity	m ³	2.87	3.18	3.18	4.84	3.27 / 4.04	4.04	3.22 / 3.78	5.60	4.83 / 5.54	5.54
Undercarriage available		-	-	-	XLT	XLT - WT - LGP	WT - LGP	LT - XLT / WT - LGP	LT - XLT	LT - XLT / WT - LGP	WT - LGP
Blade height	mm	1120	1120	1120	1319	1180 / 1000	1000	1108 / 1108	1425	1369 / 1369	1369
Max. Tilt	mm	-	-	-	+/- 420	+/- 450 / 550	+/- 550	+/- 420 / 450	+/- 411	+/- 450 / 550	+/- 550
Max. Pitch	°	-	-	-	+/- 5°	+/- 5°	+/- 5°	+/- 5°	+/- 5°	+/- 5°	+/- 5°
Max. Angle	°	-	-	-	+/- 28°	+/- 28°	+/- 28°	-	-	+/- 28°	+/- 28°
Digging depth	mm	-	-	-	596	539 / 590	590	545 / 539	583	590 / 590	590
Blade lift above ground	mm	956	956	956	1133	1130 / 1130	1130	1169 / 1165	1244	1130 / 1130	1130
Blade depth below ground	mm	539	590	590	-	-	-	-	-	-	-
Blade angle both directions	°	25°	25°	25°	-	-	-	-	-	-	-
Blade tilt, each end (up to 8.3°)	mm	430	450	450	-	-	-	-	-	-	-
Cast reach track coverage	mm	380	370	319	468	457 / 558	584	393 / 363	438	582 / 472	548
Cut reach track coverage	mm	24	12	63	468	53 / 154	80	393 / 363	438	154 / 43	119
TRACKS					XLT (Extra Long Track)	WT (Wide Track)	LGP (Low Ground Pressure)	LT (Long Track)	XLT (Extra Long Track)	WT (Wide Track)	LGP (Low Ground Pressure)
Track gauge	mm	1830	2030	2030	1930	2180	2180	1940	1940 mm	2260	2260
Max shoe width	mm	559	660	762	610	819	864	610	610 mm	762	914
Track on ground	mm	2590	2590	2590	3050	3050	3050	2645	3277 mm	3277	3277
Area of track on ground	m ²	2.90	3.42	3.95	3.72	4.30	5.26	3.22	4.65	4.99	5.99
Ground pressure	kg / cm ²	0.44 kg*	0.37**	0.32***	0.42 *	0.38 **	0.31***	0.62*	0.44**	0.42***	0.36 ****
DIMENSIONS											
Height to top of cab	mm	2948	2948	2948	2948	2948	2948	3103	3103	3103	3103
Ground clearance		330	330	330	321	321	321	325	325	325	325

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Length											
• Blade straight with drawbar	mm	5080	5080	5080	5678 PAT 5928 Semi-U	5678	5678	5491 PAT 5387 Straight - Semi-U	5902 PAT 5387 Straight - Semi-U	5902 PAT 5894 Straight	5902 PAT 5894 Straight
• Blade straight with ripper	mm	6150	6150	6150	6670 PAT 6920 Semi-U	6670	6670	6974 PAT 6869 Straight - Semi -U	7383 PAT 6869 Straight - Semi-U	7383 PAT 6982 Straight	7383 PAT 6982 Straight
Width											
• Blade straight	mm	3048	3353	3353	3302 PAT 3332 Semi-U	3962 PAT	3962 PAT	3606 PAT 3334 Straight 3426 Semi-U	3606 PAT 3334 Straight 3426 Semi-U	4064 PAT PAT Foldable 3901 Straight	4064 PAT PAT Foldable 3901 Straight
Blade angled	mm	2773	3050	3050	3000 PAT	3574 PAT 2887 PAT Foldable	3574 PAT 2887 PAT Foldable	3287 PAT	3287 PAT	3690 PAT 3023 PAT Foldable	3690 PAT 3023 PAT Foldable
Over track	mm	2396	2692	2794	2489 with 559 shoes	2997 with 819 shoes	3044 with 864 shoes	2549 with 610 shoes	2549 with 610 shoes	3022 with 762 shoes	3175 with 914 shoes

*with 559 mm shoes
 ** with 660 mm shoes
 ***with 762 mm shoes

* with 610 mm shoes
 and PAT blade
 ** with 711 mm shoes
 and PAT blade
 *** with 864 mm shoes
 and PAT blade

* with 610 mm shoes
 and PAT blade
 ** with 711 mm shoes
 and PAT blade
 *** with 762 mm
 shoes and PAT blade
 **** with 914 mm
 shoes and PAT blade

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 52.5 mm if unit is on solid surface.