



FASTER, FUEL EFFICIENT

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SPECIFICATIONS

521F

Productivity (50 meter distance cycle)	Hydraulics
Considering density at 1,8 t/m³ and 100% II factor	Valves Rexroth Closed-center, Load sensing hydraulic system.
52 cycles/hour including 5 minute break 52 loading cycles/h	Main valve with 3 sections
with 2.1 m³ bucket 110 m³/h or 198 t/h of material	SteeringThe steering orbitrol hydraulically is actuated with
Engine	priority valve Type of pump Variable displacement pump (134 l/min @250 bar)
Make F4HFE314A	Automatic hydraulic functions
IVIANC 1411 E314A	- Bucket Return-to-dig
Number of cylinders 4 cylinders - 4,7 liters - common rail	- Boom Return-to-travel
Max power SAE J1995 106kW / 142 hp @1800 rpm Maximum torque SAE J995 608 Nm @1600 rpm	- Autolift (adjustable height)
Maximum torque SAE J995 608 Nm @1600 rpm	Control type Pilot control with single joystick or two levers
Transmission	Capacities
All-wheel drive with planetary axles	Fuel tank 189 usable liters
Kick-down function	Cooling system22 liters
4-speed torque converter	Engine oil12 liters Hydraulic oil Tank: 57 liters, total system: 114 liters
4-speed auto Powershift ZF type 4WG130, switchable to manual	Hydraulic oii Iank: 57 liters, total system: 114 liters
shifting	Transmission oil19 liters
forward speeds: 6-11-22-36 Km/h reverse speeds: 6.4-12-23 Km/h	Cab
Adjustable transmission declutch	Cab complies to:
•	protection against falling objects (FOPS)ISO EN3449
Axles and differential	protection against roll over (ROPS)ISO EN13510
- for outstanding traction with 50% longer maintenance	Air ow 8.5 m ³ / min spread through 17 air vents
intervals and 30% less tire wear:	Noise and vibration
100% auto-lock differential on front axle and open rear axles	
Front and rear ZF heavy duty axles with open differential type MT-L3065-II	Interior noise 72 dB(A) according to ISO6595/6396/3744 Exterior noise 72 dB(A) at 15 meters as per SAE J88 SEP80
- for limited investment and good traction:	103 dB(A) according to ISO6595/6396/3744
29% Limited slip differential on front and rear axles	Reverse gear alarm
front and rear axle ZF type MT-L3065-II	Vibrations air-cushioned seat MSG 95A/732
Tires	Electrical
Tires 17,5R25	
17,01120	24 V. Batteries 2 x 12V. Alternator 70 A
Brakes	Alternator70 A
Service brake Maintenance free, self-adjusting wet 4-wheel	
disc brakes	
Area 0,31 m²/hub	
Parking brakeDisc brake on transmission activated from the	
cab cluster	

____ 58 cm²

Area _

Productivity (50 meter distance cycle)

Considering: density: 1,8 t/m³, II factor: 100%, 52 cycles/hour and each Valves ______ Rexroth Closed-center, Load sensing hydraulic system. hour includes a 5-minute break ______16 52 loading cycles/h with standard bucket 3.4 m³ or 6.2 ton 160 m³/h or 320 t/h Main valve with 3 sections Steering _____ The steering orbitrol hydraulically is actuated Type of pump _____ Tandem Variable displacement pump **Engine** (240 l/min @2000 rpm) Automatic hydraulic functions Compliant with Tier 3 (EU stage 3a) - Bucket Return-to-dia FPT turbocharged engine F4HE9684E*J with: - Boom Return-to-travel - 100% fresh air combustion - Auto.lift (to adjustableheight) - Air to Air intercooler Pilot control with single joystick or two levers Control type__ - Common rail (1.600 bar) - Multiple injections similar to multi-jet automotive technology to achieve **Capacities** best in class load response, max torque and power with the minimum fuel consumption. 6 cylinders -6,7 liters 288 usable litres Fuel tank Max power SAE J1995 ______ 172kW / 230 hp @1800 rpm Maximum torque SAE J1349 ______ 1184 Nm @1300 rpm Cooling system Engine oil _____ Tank: 91 litres, total system: 180 litres Hydraulic oil Transmission oil____ **Transmission** All-wheel drive with planetary axles **Cab and Controls** kick-down function 4-speed torque converter For you safety the cab complies to: protection against falling objects (FOPS)_____ 4-speed auto Powershift switchable to manual shifting protection against roll over (ROPS) ZF, switchable to manual shifting forward speeds _ 7-12-23-37 Km/h reverse speeds 7-13-25 Km/h Adjustable transmission declutch **Noise and Vibration** Driving noise in dB (A) 82 to SAE J88 @ 15 meters _ 72 LpA as per ISO6395/6396/3744 Interior noise ______ 72 LpA as per ISO6395/6396/3744 Exterior noise ______ 71 dB(A) at 15 meters as per SAE J88 SEP80 Axles and Differential For outstanding traction with 50% longer maintenance intervals and 30% 103 LwA according to ISO6395/6396/3744 less tire wear Switchable reverse gear alarm Front auto-lock differential 100% of available torque is always guaranted on Vibrations _____ air-cushioned seat MSG 95A/732 average 1.4m/s2 as per ISO/TR 25398:2006 the wheel(s) with traction Front and rear ZF Heavy Duty axles with Open Differential Excellent traction: **Electrical System** Limited slip differential front and rear when one wheel slips 73% of the available axle torque is guaranted on the other wheel 24V. Batteries 2 x 12V. Heavy Duty axle +(ZF type MT-L3095-II) Front Alternator _____ standard axle (ZF type MT-L3085-II) Rear axle total oscillation **Tyres** 23,5R25 **Brakes** Service brake __ Maintenance free, self-adjusting wet 4-wheel disc brakes Parking brake ____Disc brake on transmission activated from the cab cluster

Hvdraulics

with priority valve

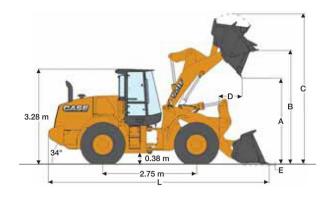
15 litres

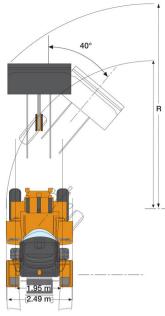
ISO EN3449

ISO EN13510

65A

Specifications





LOADER SPEED:

Raising time (loaded)	5.4 sec		
Dump time (loaded)	1.2 sec		
Lowering time (empty, power down)	3.9 sec		
Lowering time (empty, oat down)	3.9 sec		

LOADER SPEED

Raising time (loaded)	6.2 sec		
Dump time (loaded)	1.2 sec		
Lowering time (empty, power down)	2.9 sec		
Lowering time (empty, oat down)	2.5 sec		

			Z-bar						
		521F	2.1 m³ bucket		1.7 m³ bucket with quick coupler		821F	3.4 m³	
		Bucket with bolt on :	edge	teeth + segment	edge	teeth	Bucket with bolt on :	edge	teeth
	Bucket volume (heaped)	m³	2.07	2.07	1.70	1.70	m³	3.42	3.24
	Bucket Payload	kg	3478	3475	3535	3584	kg	6146	6268
	Maximum material density	ton/m³	1.7	1.7	2.1	2.1	ton/m³	1.80	1.94
	Bucket outside width	m	2.49	2.54	2.44	2.44	m	2.95	2.95
	Bucket weight	kg	857	877	1137	1065	kg	1550	1460
	Tipping load - straight	kg	8150	8145	8317	8415	kg	14203	14465
	Tipping load - Articulated at 40	kg	6957	6949	7069	7167	kg	12293	12536
	Breakout force	kg	7591	7781	7104	6959	kg	15076	16133
	Lift capacity from ground	kg	8889	8979	10620	10700	kg	17976	18137
A -	Dump height at 45 at full height	m	2.62	2.55	2.58	2.56	m	2.94	2.86
В-	Hinge pin height	m	3.61	3.61	3.61	3.61	m	4.12	4.12
C -	Overall height	m	4.75	4.75	4.77	4.77	m	5.49	5.49
D -	Bucket reach at full height	m	1.12	1.19	1.18	1.22	m	1.17	1.13
E-	Dig depth	cm	8	8	7	5	cm	7	5
L-	Overall length with bucket on the ground	m	6.83	6.94	6.90	6.92	m	7.94	8.06
R -	Turning radius to front corner of the bucket	m	5.5	5.6	5.5	5.5	m	6.6	6.7
	Bucket rollback in carry position		43	43	48	48		44	44
	Dump angle at full height		55	55	50	50		55	55
	Machine operating weight	kg	10448	10468	10728	10656	kg	17694	17604

Note: bucket specication can slightly differ according to plant source. More bucket choice is available, please contact your local dealer.







Luzon : 0917-3106399 Visayas : 0917-8061789 Mindanao : 0917-6349477

