F-SERIES WHEEL LOADERS 721F/821F







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F-SERIES WHEEL LOADERS

821F

PRODUCTIVITY (50-meter distance cycle)

Considering: density: 1,8 t/m³, fill factor: 100%, 52 cycles/hour and each hour includes a 5-minute break _ ____160 m³/h or 320 t/h 52 loading cycles/h with standard bucket 3.4 m³ or 6.2 ton

ENGINE TIER 3

Compliant with Tier 3 (EU stage 3a)

FPT turbocharged engine F4HE9684E*J with:

- 100% fresh air combustion
- Air to Air intercooler

- Common rail (1.600 bar)

- Multiple injections similar to multi-jet automotive technology to achieve best in class load response, max torque and power with the minimum fuel consumption.

6 cylinders -6,7 liters

 Max power SAE J1995______172kW / 230 hp @1800 rpm

 Maximum torque SAE J1349 ______1002 Nm @ 1500 rpm

TRANSMISSION

All-wheel drive with planetary axles kick-down function 4-speed torque converter 4-speed auto Powershift switchable to manual shifting ZF, switchable to manual shifting _7-12-23-37 Km/h forward speeds reverse speeds 7-13-25 Km/h Adjustable transmission declutch

AXLES AND DIFFERENTIAL

For outstanding traction with 50% longer maintenance intervals and 30% less tire wear Front auto-lock differential 100% of available torgue is always guaranted on the wheel(s) with traction

Front and rear ZF Heavy Duty axles with Open Differential

Excellent traction:

Limited slip differential front and rear when one wheel slips 73% of the available axle torque is guaranted on the other wheel Heavy Duty axle +(ZF type MT-L3095-II) Front _____standard axle (ZF type MT-L3085-II)

Rear Rear axle total oscillation _____ 24°

TYRES

Tyres

23.5R25

BRAKES

Service brake _	_ Maintenance free, self-adjusting wet 4-wheel disc brakes
Area	0.39 m²/hub
Parking brake _	Disc brake on transmission activated from the cab cluster
Area	82 cm ²

HYDRAULIC

Valves Rexroth	Closed-center, Load sensing hydraulic system.
	Main valve with 3 sections
Steering	_ The steering orbitrol hydraulically is actuated
	with priority valve
Type of pump	Tandem Variable displacement pump
	(240 l/min @2000 rpm)
Automatic hydraulic functions	3

- Bucket Return-to-dig

- Boom Return-to-travel

- Auto.lift (to adjustableheight)

Control type Pilot control with single joystick or two levers

CAPACITIES

Fuel tank	288 usable litres
Cooling system	30 litres
Engine oil	15 litres
Hydraulic oil	_ Tank: 91 litres, total system: 180 litres
Transmission oil	34 litres

CAB AND CONTROLS

For you safety the cab complies to:	
protection against falling objects (FOPS)_	ISO EN3449
protection against roll over (ROPS)	ISO EN13510

NOISE AND VIBRATION

Driving noise in dB (A) 82 to SAE J88 @ 15 meters				
Interior noise	72 LpA as per IS06395/6396/3744			
Exterior noise	71 dB(A) at 15 meters as per SAE J88 SEP80			
	103 LwA according to IS06395/6396/3744			
Switchable reverse gear alarm	-			
Vibrations	air-cushioned seat MSG 95A/732			
	average 1.4m/s2 as per ISO/TR 25398:2006			

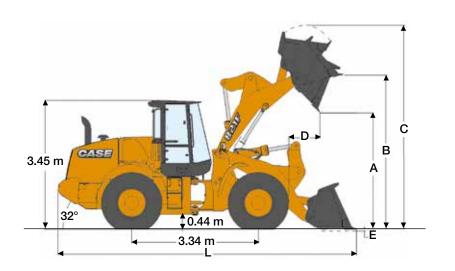
ELECTRICAL SYSTEM

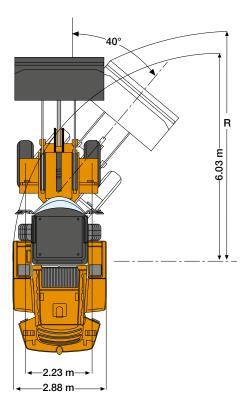
24V. Batteries 2 x 12V.	
Alternator	

65A

SPECIFICATIONS

GENERAL DIMENSIONS





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, float down)	2.5 sec

		Z-BAR BUCKETS						
821F			3.4	m ³	3.2 m ³		2.8 m ³	
Bucke	Bucket with bolt on:		edge	teeth	edge	teeth	edge	teeth
	Bucket volume (heaped)	m ³	3.42	3.24	3.20	3.10	2.8	2.5
	Bucket Payload	kg	6146	6268	6184	6295	6274	6478
	Maximum material density	ton/m ³	1.80	1.94	1.93	2.03	2.24	2.59
	Bucket outside width	m	2.95	2.95	2.94	2.94	2.95	2.94
	Bucket weight	kg	1550	1460	1520	1430	1366	1276
	Tipping load - straight	kg	14203	14465	14284	14523	14465	14917
	Tipping load - Articulated at 40°	kg	12293	12536	12367	12590	12547	12955
	Breakout force	kg	15076	16133	15473	16676	17751	19180
	Lift capacity from ground	kg	17976	18137	18055	18201	18263	18559
Α	Dump height at 45° at full height	m	2.94	2.86	2.96	2.88	3.06	2.99
В	Hinge pin height	m	4.12	4.12	4.12	4.12	4.12	4.12
C	Overall height	m	5.49	5.49	5.45	5.45	5.29	5.29
D	Bucket reach at full height	m	1.17	1.13	1.15	1.27	1.02	1.14
Е	Dig depth	cm	7	5	7	5	7	5
L	Overall length with bucket on the ground	m	7.94	8.06	7.90	8.03	7.74	7.86
	Overall length without bucket	m	6.78	6.78	6.78	6.78	6.78	6.78
R	Turning radius to front corner of the bucket	m	6.6	6.7	6.6	6.6	6.6	6.6
	Bucket rollback in carry position	0	44	44	44	44	44	44
	Dump angle at full height	0	55	55	55	55	55	55
	Machine operating weight	kg	17694	17604	17664	17574	17510	17420

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

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