#### **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 m<sup>3</sup>/h or 320 t/h 52 loading cycles/h with standard bucket 3.4 m<sup>3</sup> 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 <sup>2</sup>

#### 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			

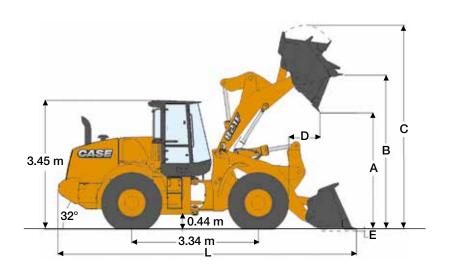
## ELECTRICAL SYSTEM

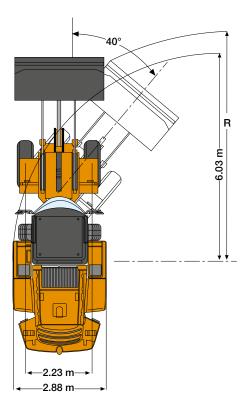
24V. Batteries 2 x 12V.	
Alternator	

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 <sup>3</sup>	<b>3.2</b> m <sup>3</sup>		2.8 m <sup>3</sup>	
Bucke	Bucket with bolt on:		edge	teeth	edge	teeth	edge	teeth
	Bucket volume (heaped)	m <sup>3</sup>	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 <sup>3</sup>	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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