

# 938

Electro hydraulic 4 speed transmission

# RANGER



## FEATURES

- Cummins 6BT5.9-C120
- Electro hydraulic 4 speed transmission
- SDLG axles with air over hydraulic disc brakes
- A/C ROPS cabin with pillarless wrap around windscreen for maximum visibility
- Single lever hydraulic pilot control
- 2 years or 2000 hours warranty

## OPTIONS

- Optional hydraulic quick hitch
- Optional full powered hydraulic 3rd function
- Optional extended loader arms (+300 mm)
- Optional auto weighing equipment
- Optional auto greasing system
- Large range of practical attachments available

## SPECIFICATIONS

Item	Performance
Engine horse power	92kW / 125hp @2500rpm
Max. traction force (by engine)	≥105 kN
Operating weight	10,700kg / 10.7t
Standard bucket capacity	1.8 m <sup>3</sup>
Rated load	3000 kg
Max. brakeout force	≥96 kN / 9780 kg / 9.78 t
Static tipping load	≥66 kN / 6739 kg / 6.739 t
Min. turning radius outside rear wheel	5381 mm
Min. turning radius outside bucket	5912 mm

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**RANGER** 

ABN: 96 182 421 102

## ENGINE

Item	Performance
Model	6BT5.9-C120
Type	Straight-lined, water cooled, direct injection
Rated power	92 kW
Rated rpm	2500 rpm
Displacement	5.9 L
Cylinder No.	6
Cylinder bore/stroke	102/120 mm
Min. fuel consumption	≤217 g/kW.h
Max. torque	436 N.m

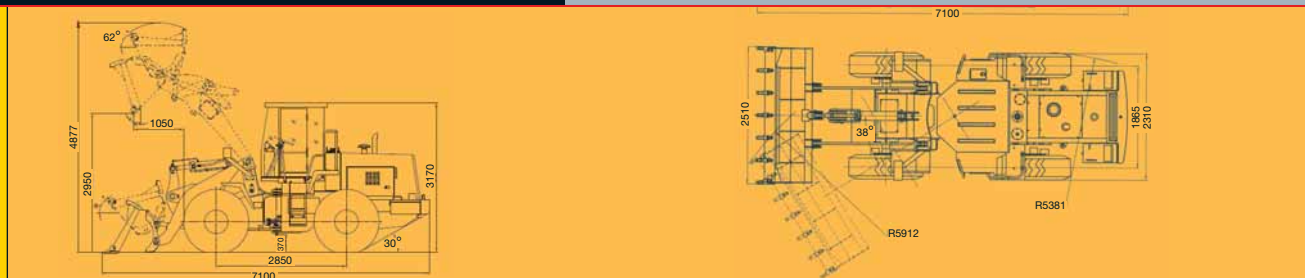
## WORKING SYSTEM

Item	Performance
Type	Single lever hydraulic pilot control
Boom cylinder - cylinder bore x piston rod diameter x stroke	125x70x771 mm
Bucket cylinder - cylinder bore x piston rod diameter x stroke	140x80x502 mm
Pump	CBGj3100A
Multiple directional control valve type	DF-25B2-16
Working pressure	2320 Psi
Lifting time (max load)	≤5.3s
Lowering time (empty)	≤2.9s
Dumping time (empty)	≤1.0s
Total	≤9.2s

## STEERING SYSTEM

Item	Performance
Type	Full-hydraulic articulated steering
Pilot-actuated valve	VLE-150
Steering pump	CBGj2063/2040
Steering cylinder - cylinder bore x piston rod diameter x stroke	HSGF-80x45x327 mm
Redirector	BZZ5-E630C
Steering angle	38°
Working pressure	2030 Psi

## DIMENSIONS OF 938



## TRANSMISSION

Item	Performance				
Torque converter	Type	Single phase 3 element single turbo hydraulic converter			
	Torque ratio	2:3			
	Cooling system	Circulated, water cooled			
Travel speed	Speeds	I	II	III	IV
	Forward	0-7 km/h	0-12	0-27	0-35
	Reverse	0-7 km/h	0-12	0-27	--
Transmission	Type	Electrohydraulic shift			
	Shift	Forward 4 Reverse 3			
	Transmission ratio	Forward I	3:91		
		Forward II	2:304		
		Forward III	0:964		
		Forward IV	0:617		
		Reverse I	3:91		
		Reverse II	2:304		
	Reverse III	0:964			
	Model of Transmission pump	CBGj2063/2040			
Working pressure	188-246 Psi				
Main drive	Type	Single stage, spur gear			
	Gear ratio	6:167			
Final drive	Type	Single stage, planetary shift			
	Gear ratio	3:12			
Driving axle and tyre	Type	Driving axle and tyre			
	Tyre specification	17.5 x 25			
	Tyre pressure	Front wheel	47-51 Psi		
Rear wheel		40-42 Psi			
Brake system	Service brake	Air over hydraulic disc brake on 4 wheels			
	Service brake	65-98 Psi			
	Parking brake	Air brake			

## SERVICE REFILL CAPACITIES

Item	Performance	Item	Performance
Fuel	140L	Engine	16.3L
Hydraulic oil	130L	Gear box	20L
Axles (main drive and final drive)	2x16L	Brake system	4L

## DIMENSIONS

Item	Performance	Item	Performance
Length (With bucket on ground)	7100 mm	O/s to o/s width of wheels	2310 mm
Height	3170 mm	Wheel centre to wheel centre	1885 mm
Max. dumping height (-45° dump angle)	2950 mm	Front wheel to bucket edge	1050 mm
Bucket width	2510 mm	Wheelbase (front/back)	2850 (1250/1600) mm