

BACKHOES RANGE AUSA

Turbocharged Perkins Engine

Power 100 hp / 74,5 kW

Operating Weight 8,7 tons

Bucket Capacity 1,1 m³



RC3



RC5



RC8

AUSA BACKHOES

- Modern compact design
- Turbocharged, environment friendly diesel engine, with high power, low fuel consumption and low maintenance cost
- As a loader curved hood ensures super forward visibility and easy working
- Fast loading, unloading and travel on the job sites

- Electro Hydraulic Suspension System (EHSS) provides maximum driving comfort even on very rough terrain (optional)
- Adjustable seat with seat belt and arm rest
- Perfect maneuverability

CABIN

- Specially designed ROPS/FOPS cab provides perfect operating comfort, excellent visibility, and reliability.
- Front and side control panels are fully equipped with the latest technology, the arrangement of controls are within easy reach, the audible and visual warning on main function guide operator for failure and adjustable steering column as standard gives extra driving comfort to the operator.
- Full-opening of rear side windows, partial and full-opening of the doors provide superior fresh air circulation in the cab, tinted safety glass improves visibility and sun visor protects operator against strong sunlight and ensures clear vision.
- Adjustable operator's seat with safety belt can be adjusted to different body weights and heights to obtain comfortable ride and work.
- Heating and ventilation standard equipment

Hydraulic Operated Joystick Controls (RC5 /RC8)

- As standard, patent-protected backhoe joystick columns can be adjusted separately in all positions for front and rear movement of the columns. This new improvement meets high utilization requirements of the operator and increases productivity with low effort.
- The placement of the columns provides large working area for the operator.
- Hydraulic operated joystick controls for both front loader and backhoe attachments enable the operator to have smooth control and get precise movement.



RC5/RC8 - Hydraulic operated JOYSTICK controls enables the operator to have smooth control and get precise movements (RC5: piston pump - RC8: gear pump)



RC3 - Mechanically operated control levers (gear pump)

TECHNICAL SPECIFICATIONS

Engine

Make	Perkins
Model	1104C - 44T
Type	4 stroke diesel, turbo charged
Rated power	100 (74,5) hp / kW
Rated speed	2.200 rpm
Displacement	4,4 lt
Bore and Stroke	106 x 127 mm
No of cylinders	4
Max. Torque	412 Nm
Cooling	Water cooled and engine oil cooler

- Heavy duty design, high torque capability, powerful PERKINS engine.
- Low fuel consumption and low maintenance cost.
- Environmental friendly
- Dry type air cleaner with primary and safety elements.
- Alternator 75 amp
- Starting system thermal aid
- Turbocharged

Electrical system

Battery	12 / 120 V/Ah
Starter	3 kW

Hydraulic System

	RC3	RC5	RC8
System type	Unload / o-center	Load-sensing	Unload / o-center
Hydraulic pump	Tandem gear	Piston	Tandem gear
Max. Flow	90 + 64 (154) l/min	86 + 73 (159) l/min	90 + 64 (154) l/min
Max. Press.	220 bar	220 bar	220 bar

Hydraulic Controls

Backhoe controls	Mechanical control levers	Hydraulic joystick controls	Hydraulic joystick controls
Loader control	Mechanical control lever	Hydraulic joystick control	Hydraulic joystick control

Drive Train

Transmission

	RC3	RC5	RC8
Make	ZF	ZF	Carraro
Type	Powershift	Powershift	Powershift
Transmission disconnect	with brake system	with push button and brake system	with push button and brake system

Travel Speed

1st (forward/reverse)	6 / 8 km/h	6 / 8 Km/h	5,8 / 5,8 Km/h
2nd (forward/reverse)	11 / 14 km/h	11 / 14 Km/h	9,6 / 9,6 Km/h
3rd (forward/reverse)	23 / 23 km/h	23 / 23 Km/h	21,2 / 21,2 Km/h
4th (forward/reverse)	40 / 40 km/h	40 / 40 Km/h	40 / 40 Km/h

ZF TRANSMISSION (RC3-RC5)

- Powershift
- High performance
- Compact Design
- Low noise and low internal speed
- High gear contact ratio
- All helical gear design
- Integrated clutch and lube oil supply
- Ease of operation with hydrostatic steering system even under high load conditions
- Limited slip differential on front axle
- High input torque with outboard planetary design.
- Electro-hydraulic operated differential %100 locking acts an rear axle
- Self adjusting high torque internal wet multi disc service brake.
- 52 degrees steering angle
- 20° total oscillation on front axle

CARRARO TRANSMISSION (RC8)

- Powershift and semi-automatic transmission
- Electro-hydraulic selection of 2WD and 4WD
- High performance
- Compact Design
- Low noise and low internal speed
- 52 degrees steering angle for perfect maneuverability
- 16° total oscillation on front axle
- Ease of operation with hydrostatic steering system even under high load conditions.
- Electro-hydraulic operated differential %100 locking acts an rear axle

TECHNICAL SPECIFICATIONS



Steering

	RC3/RC5	RC8
Steering Type	2 Wheel	4 Wheel
Power Steering	Hydrostatic	Hydrostatic

Turning Circle (without brakes)

Out.Front Tire Clearance	8,4 m	8,6 m
Out.Loader Bucket Clearance	11,1 m	10,6 m

Tires

	RC3/RC5	RC8
Front 4WD - Standard	12,5/80-18	16,9 – 28
Rear 4WD - Standard	16,9 – 28	16,9 – 28

Brakes

2 wheel / 4 wheel	2 wheel / 4 wheel
Service type	Hydraulic wet multi-disc
Parking type	Mechanical control on rear axle

Loader Attachment

Shovel Capacity	1,1 m ³
Breakout Force Lift	51,58 kN
Breakout Force Shovel Max.	77,2 kN
Shovel Width	2280 mm
Lift to full height (RC3/RC5)	3273 Kg
Lift to full height (RC8)	3000 kg

Backhoe Attachment

Max. Bucket Tearout Retract	59,4 kN
Dipper Tearout	
Retracted	30,8 kN
Extended	21,7 kN

Weights

	RC3	RC5	RC8
Operating Weight	8100 Kg	8200 Kg	8700 kg

Capacities (liters)

	RC3/RC5	RC8
Engine Oil	8,4	8,4
Cooling System	25,0	25,0
Fuel Tank	100,0	90,0
Hydraulic Tank	100,0	90,0
Hydraulic System	140,0	140,0
Front Axle	7,8	11,5
Rear Axle	16,0	16,0
Brake Oil	0,4	0,4



Maintenance

- Tilt-able and pop-up hood enables operator to access all the necessary maintenance points easily and quickly by spending less time and effort.

- Tilt-able hydraulic and transmission cooler make it convenient to wash and clean the engine cooler without removing any hose connections.

Standard Equipment

Attachments, Front Loader

- Hydraulic operated joystick control
- General purpose bucket
- Loader arm safety strut
- Hydraulic operated joystick control
- Automatic return to dig
- Bucket: 1,1 m³

Attachments, Backhoe

- Hydraulic operated joystick controls
- Swing and Boom transport lock with mechanical control from the cab
- Electro-hydraulic side shifting lock
- Standard-duty bucket
- Stabilizer safety check valves
- Hydraulic hammer piping

Drive Train

- Electro-hydraulic differential lock
- Front axle, 4WD pendulum mount
- Front axle, limited slip differential
- 40 kph gearbox (full powershift)
- Transmission neutralizer switch

ROPS/FOPS Cab

- Adjustable backhoe joystick columns (RC5/RC8)
- Adjustable steering column
- Heater
- Cab recirculating fan
- Demisting system
- Front windshield washer and wiper
- Steering wheel spinner knob
- Coat hook
- Cigarette lighter and ashtray
- Ventilation openers
- Rear windshield wipers
- Fully equipped instrument panel
- Left-right side doors with locks
- Mirrors, exterior (2), interior (1)
- Storage compartment
- Sunvisor
- Adjustable seat with suspension, seat belt and armrest
- Rotating beacon (detachable)
- Tinted glass
- Working lights, 2 rear and 4 front
- Radio / Cassette Player

Electrical System

- Alarm, backup
- Battery, 12 V, 120 Ah
- Front headlights
- Master switch
- Visual and audible warning systems on main functions
- Warning horn

Engine System

- Air cleaner, dry type and radial seal
- Alternator 75 amp.
- Starting system thermal aid
- Turbocharged
- Air filter condition indicator lamp

Others

- Tool box, external
- Front mudguards (RC5/RC8)
- Patent protected
- Automatic return to dig system (RC5/RC8)
- Follows EC standards
- Bucket teeth protector

Optional Equipment *

Attachments, Front Loader

- Multipurpose bucket 4x1
- Fork attachment
- Safety check valves
- Bolton segment
- (EHSS) Electro Hydraulic Suspension System

Attachments, Backhoe

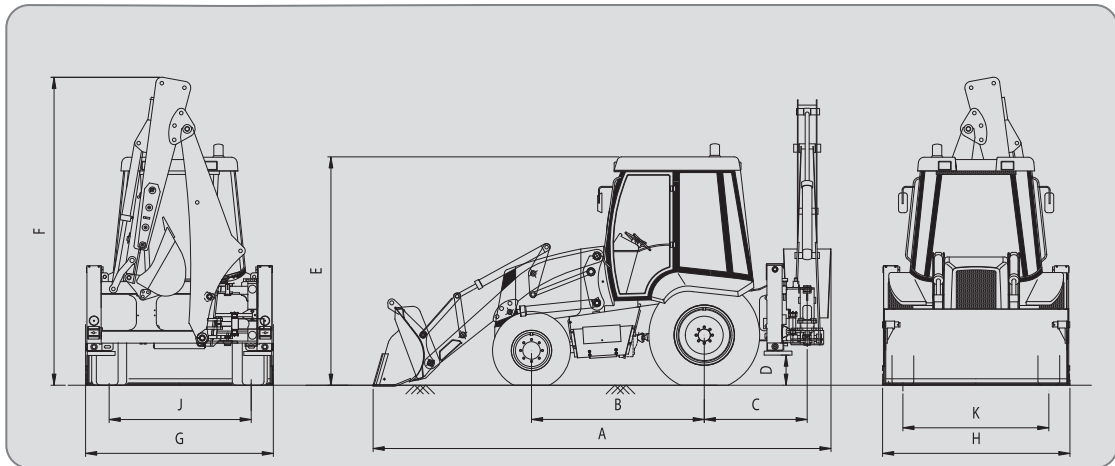
- Additional backhoe buckets
- Telescopic boom
- Safety check valves
- 4WD shaft guard
- Hydraulic hammer

Others

- Air pre-cleaner
- Battery 150 Ah
- Air condition

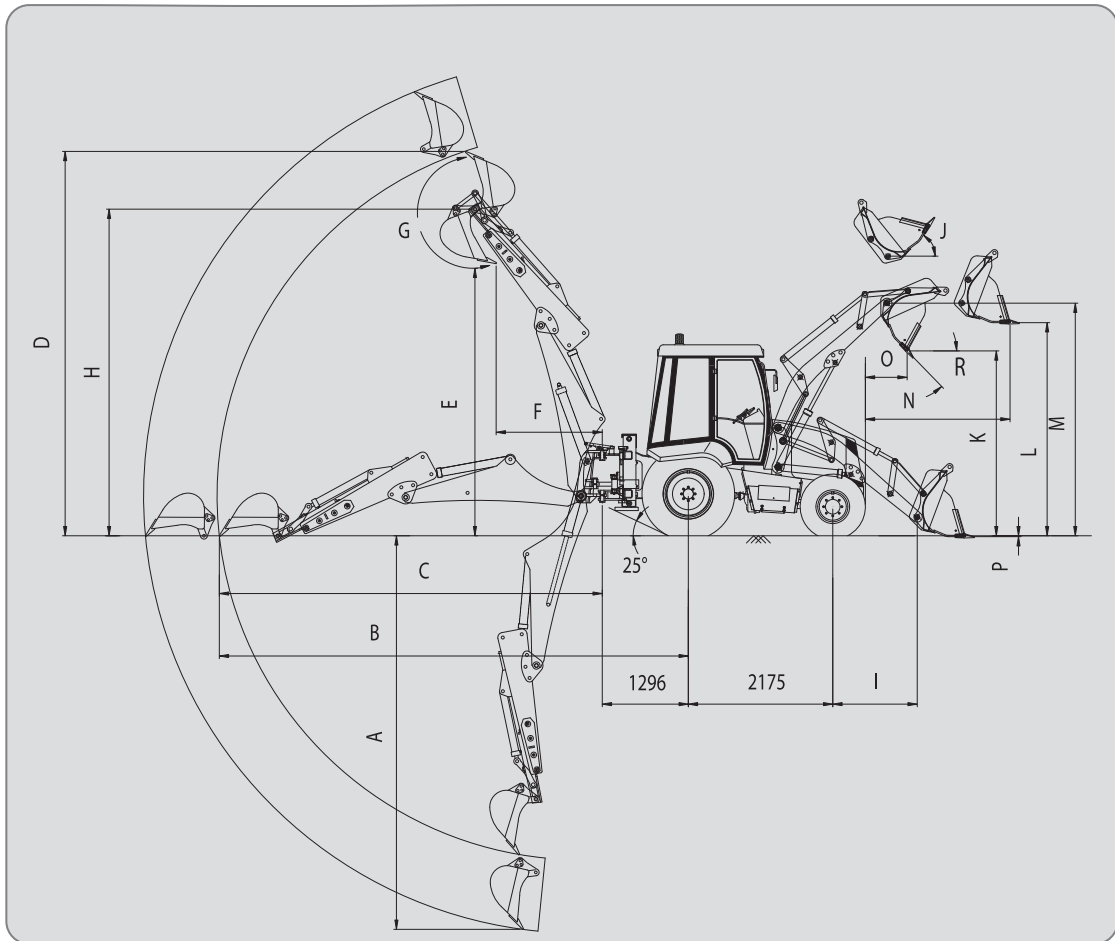


DIMENSIONS RC3-RC5



A - Overall Machine Length	5775 mm.
B - Wheelbase	2175 mm.
C - Backhoe Swing Centre Distance	1296 mm.
D - Minimum Machine Height	400 mm.
E - Cab Height	2860 mm.

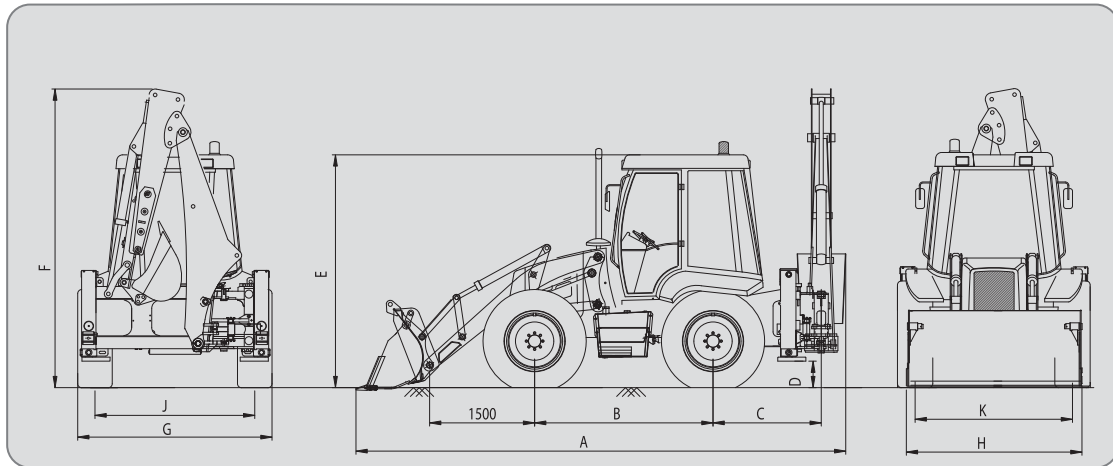
F - Machine Maximum Height	3832 mm.
G - Machine Maximum Width	2280 mm.
H - Overall Width - with Bucket	2280 mm.
J - Rear Wheel Track	1770 mm.
K - Front Wheel Track	1892 mm.



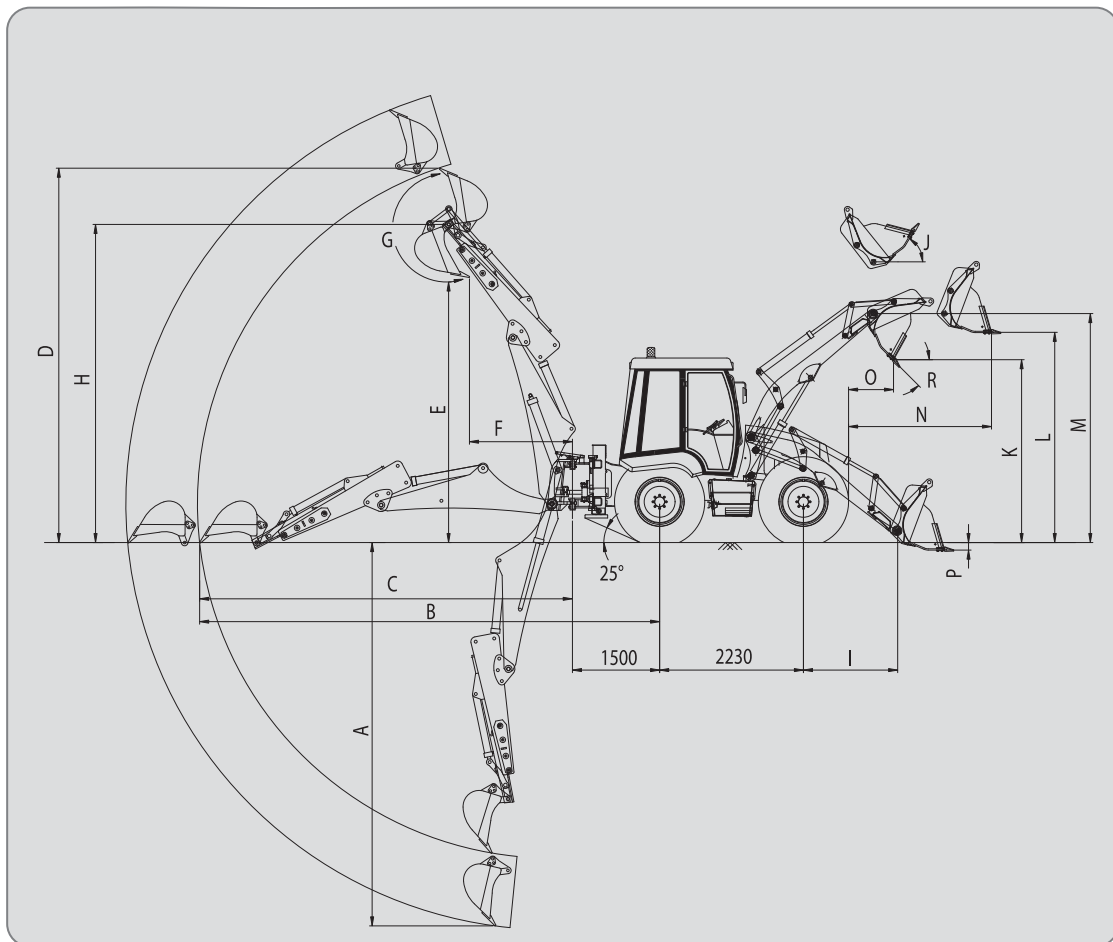
Backhoe Dimensions	Retracted	Extended
A - Max. Digging Depth	4600 mm.	5800 mm.
B - Max. Reach From Rear Axle Center	7000 mm.	8100 mm.
C - Max. Reach From Swing Center	5700 mm.	6800 mm.
D - Max. Digging Height	5600 mm.	6450 mm.
E - Max. Dumping Height	3850 mm.	4700 mm.
F - Loading Reach	1800 mm.	2650 mm.
G - Bucket Rotation Angle	200,4°	200,4°
H - Max. Bucket Hinge Pin Height	4750 mm.	5550 mm.

Loader Dimensions	
I - Distance Between Hinge Pin and Front Axle Center	1200 mm.
J - Max. Rollback angle, fully raised	59,2°
K - Dump Height	2740 mm.
L - Loadover Height	3200 mm.
M - Height to Hinge Pin	3500 mm.
N - Max. Reach at Full Height	1070 mm.
O - Dumping Reach	630 mm.
P - Digging Depth	113 mm.
R - Dump Angle	45°

DIMENSIONS RC8



A - Overall Machine Length	6220 mm.	F - Machine Maximum Height	3760 mm.
B - Wheelbase	2230 mm.	G - Machine Maximum Width	2400 mm.
C - Backhoe Swing Centre Distance	1500 mm.	H - Overall Width - with Bucket	2280 mm.
D - Minimum Machine Height	400 mm.	J - Rear Wheel Track	1950 mm.
E - Cab Height	2950 mm.	K - Front Wheel Track	1950 mm.



Backhoe Dimensions

	Retracted	Extended
A - Max. Digging Depth	4600 mm.	5800 mm.
B - Max. Reach From Rear Axle Center	7000 mm.	8100 mm.
C - Max. Reach From Swing Center	5700 mm.	6800 mm.
D - Max. Digging Height	5600 mm.	6450 mm.
E - Max. Dumping Height	3850 mm.	4700 mm.
F - Loading Reach	1800 mm.	2650 mm.
G - Bucket Rotation Angle	200,4°	200,4°
H - Max. Bucket Hinge Pin Height	4750 mm.	5550 mm.

Loader Dimensions

I - Distance Between Hinge Pin and Front Axle Center	1500 mm.
J - Max. Rollback angle, fully raised	59,2°
K - Dump Height	2800 mm.
L - Loadover Height	3400 mm.
M - Height to Hinge Pin	3550 mm.
N - Max. Reach at Full Height	1095 mm.
O - Dumping Reach	615 mm.
P - Digging Depth	117 mm.
R - Dump Angle	45°



DEALER STAMP

-Illustrations and data may differ from standard equipment.
-Specifications are subject to change without notice.
-See your dealer for available options.