



Bobcat®

**BACKHOE LOADER
B900**



One Tough Animal™

BOBCAT B900 ADVANTAGES

7840 Kg
Operating Weight

76 HP,
Turbocharged
Engine

2 Wheel Drive
Synchro shuttle
Transmission

121 Lpm Hydraulic
flow with Tandem
Gear Pump

Side Shift
Stabilizers

1.1 m³
Loader Bucket
Capacity

0.26 m³
Backhoe Bucket
Capacity



Best in Class Digging Depth



Optimized Design for Fuel Efficiency & Component Durability



Best in Class Breakout Forces and Higher Performance



Comfortable Operator Cabin



Advanced Hydraulics System



Total Cost of Ownership Advantages



Advanced Hydraulics System

- Equipped with Parker Tandem Gear Pump
- Advanced Hydraulic System
- Reduced Power Consumption



Comfortable Operator Cabin

- Spacious operator cabin with Ergonomic controls
- Operator convenient features



Best in Class Breakout Forces and Higher Performance

- B900 offers 7 ~ 10 % higher breakout forces
- Heavy duty Carraro Transmission and Rear Axle
- Front axle - 16° Oscillation
- Higher Ground clearance
- Best in class front wheel turning radius
- Large cooling package and more efficient cooling fan



Total Cost of Ownership Advantages

- Highly durable Engine, Hydraulics and Power Train components
- Lower fuel consumption
- Increased service intervals



Optimized Design for Fuel Efficiency

- B900 is powered by Popular and Fuel Efficient Kirloskar Engine
- Better Performance even at low engine speed



Best in Class Digging Depth

- 3 ~ 5 % higher maximum digging depth

BOBCAT B900 ADVANTAGES



Best in Class Digging Depth



Bobcat B900 offers 3 ~ 5 % higher maximum digging depth compared to other backhoe loaders in its class. That makes B900 best performer in its class.



Best in Class Breakout Forces and Higher Performance.

Breakout Forces



B900 offers 7 ~ 10 % higher breakout forces. Higher breakout forces helps in increased capability for working in hard ground excavation, higher dozing and loading performance.

Higher Performance



Heavy duty Carraro Transmission and Rear Axle for higher torque and best performance with higher drawbar pull.



Front axle is provided with balanced cylinders for better steering performance and 16° Oscillation for better performance at uneven terrains.



Higher Ground clearance for better performance even at rough & undulated surface. Higher ground clearance also helps in protecting power train components from damages.



Best in class front wheel turning radius for higher maneuverability and best performance to work in confined areas.



Large cooling package and more efficient cooling fan helps in working long hours without overheating issues and also helps in long life of components.



Comfortable Operator Cabin



Operator Comfort is one of major consideration in B900 design. Spacious operator cabin with Ergonomic controls and operator convenient features makes B900 a preferred choice for comfortable operation.



Optimized Design for Fuel Efficiency & Component Durability

Fuel Efficiency



B900 is powered by Popular and Fuel Efficient Kirloskar Engine, helps in better fuel consumption.



ECONOMY
1400 RPM

POWER
1550 RPM

With optimized design of Bobcat B900, Economy mode operations can be achieved with 1400 Rpm and Power Model can be achieved with 1550 Rpm. Higher performance even at low engine rpm helps in great fuel savings.

Durability



B900 is equipped with Industry's best and proven components for long durability, higher performance and reduced maintenance.



Major Structural Items are reinforced to enhance life and manufactured inhouse with Bobcat Manufacturing Facility in Chennai.



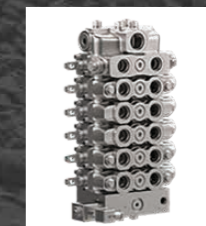
Hydraulic Hose Distribution Box Provided in Backhoe hydraulic circuit of B900 for increased life of hydraulic hoses, less leakages and reduces down time.



Advanced Hydraulics System



B900 Hydraulics is equipped with Parker Tandem Gear Pump and advanced Hydraulic System that automatically redirect hydraulic flow to tank when hydraulic functions are in neutral mode.



When there is higher hydraulic pressure requirement, flow from second pump is redirected to tank to reduce the load on engine.

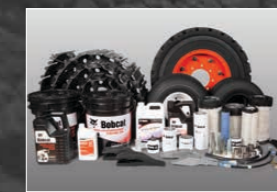
These advanced hydraulic features will reduce power consumption from engine to ensure high fuel efficiency.



Total Cost of Ownership Advantages



Highly durable Engine, hydraulics and Power Train components gives longer life.



Lower fuel consumption and Increased service intervals for periodic maintenance results in low cost of ownership.

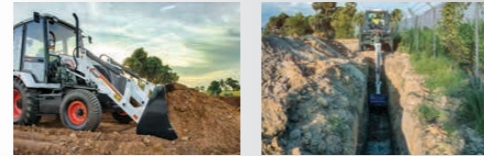
BOBCAT BACKHOE ADVANTAGES



Bobcat® B900 offers best in class digging depth & more horizontal and vertical reach.

More side shift travel of swing carrier helps in more side reach and increased trenching performance at confined areas.

Higher Breakout Forces



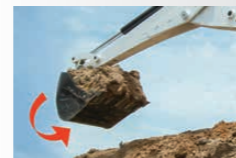
While offering the best in class digging depth and reach, Bobcat B900 also offers superior performance with 7 to 8% higher breakout force, enabling machine to dig in to loads without being stressed.

Cushion Cylinders for Boom & Swing



The powerful cushioning system, integrated into the Boom and Swing cylinders, softens movement at the ends of the stroke to absorb shock and increase cylinder life as well as avoids impacts to the structure.

Higher Bucket Curl Angle



Higher bucket curl angle helps in more efficient material handling.

0.26 m³ Backhoe Bucket



The standard bucket of B900 offers higher bucket capacity of 0.26 cubic meter.

With unique bucket profile, B900 Offers more perfect trench finish.

BOBCAT LOADER ADVANTAGES



Optimal parallelogram lifting for excellent loading performances



Bobcat® B900 designed with parallelogram loader linkage for more stability and higher visibility for maximum loader performance.

Higher Lifting & Dumping height



B900 Provides higher lift height and Best in class dumping height for more efficient loader performance.

Higher Breakout Forces



B900 offers 10 – 13% more tear out forces. Together with higher dumping height & great breakout forces, Bobcat B900 offers highest performance for powerful and efficient loader operation.

Reinforced Structures for long durability



B900 offers reinforced structures which is highly durable and capable enough to work for various jobsite requirements. All the main structure items are manufactured inhouse with Bobcat Company's Manufacturing facility.

1.1 Cubic Meter Loader Bucket



1.1 Cubic Meters capacity with best in class 45° roll back angle of loader bucket helps in more efficient material handling and loading performance.

OPERATOR COMFORT



Higher Visibility



Stylish and dynamic design cabin provides all round visibility for the operator from working position.



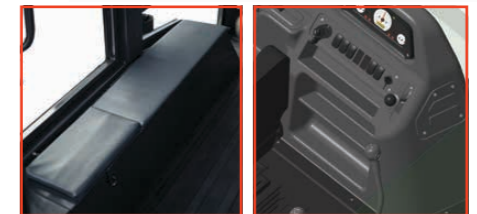
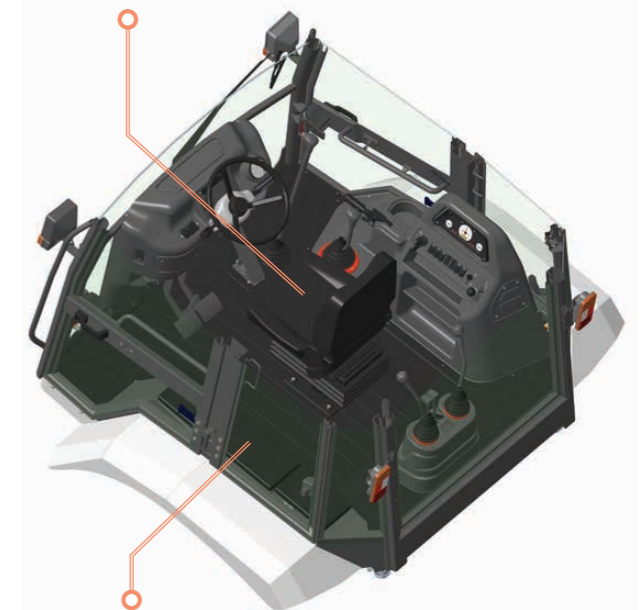
Large Side view mirrors and additional rear view mirror improves rear visibility for more convenient and safe operation.

Spacious Cabin

Large roomy cab space for comfortable operation.



Adjustable Suspension seat Provided as standard feature for enhanced operator comfort.



Large Storage Box and various storage compartments in the front and side panels provided for ideal storage and more keeping areas.

Ergonomic Controls



Control Levers and Switches are ergonomically designed for convenient operation.



Electronic Control FNR lever for more convenient operation.



Easy to reach Lights cum Wiper Control Lever provided with two wiper speed option.



Large foot area for accelerator and break pedals for ease of access and comfortable operation.



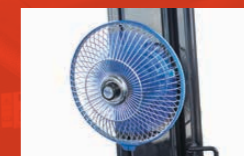
Steering knob Provided for ease of steering control.



Enhanced Operator Convenience Features



Standard Radio Cum MP3 Player Provided.



Multi direction fan provided with easy to access control switch.



LED Dome Light Provided for better lighting inside cabin.



Side Control Panel cluster has large sized displays and easy to read indicators.

SERVICEABILITY ADVANTAGES

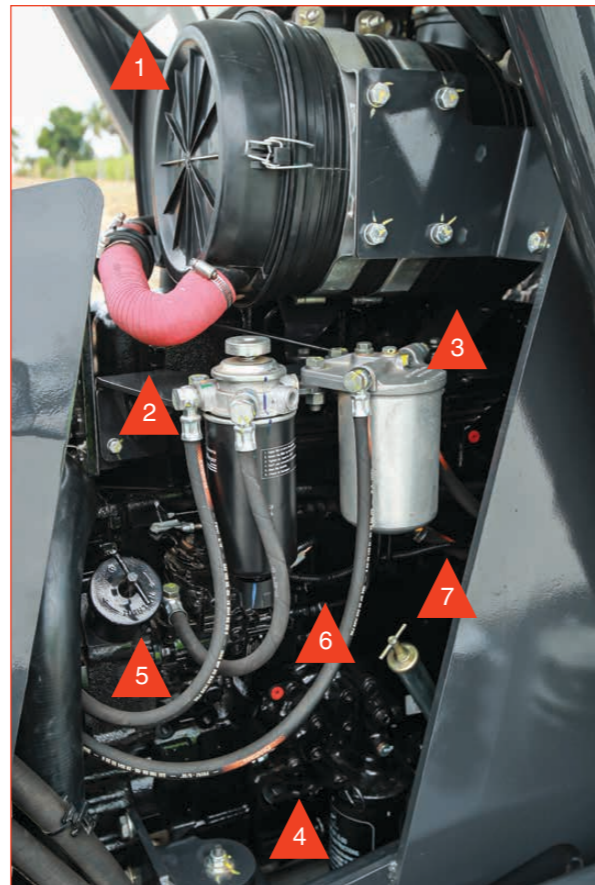
B900 IN ACTION

Engine hood - Easy opening from operator cabin.

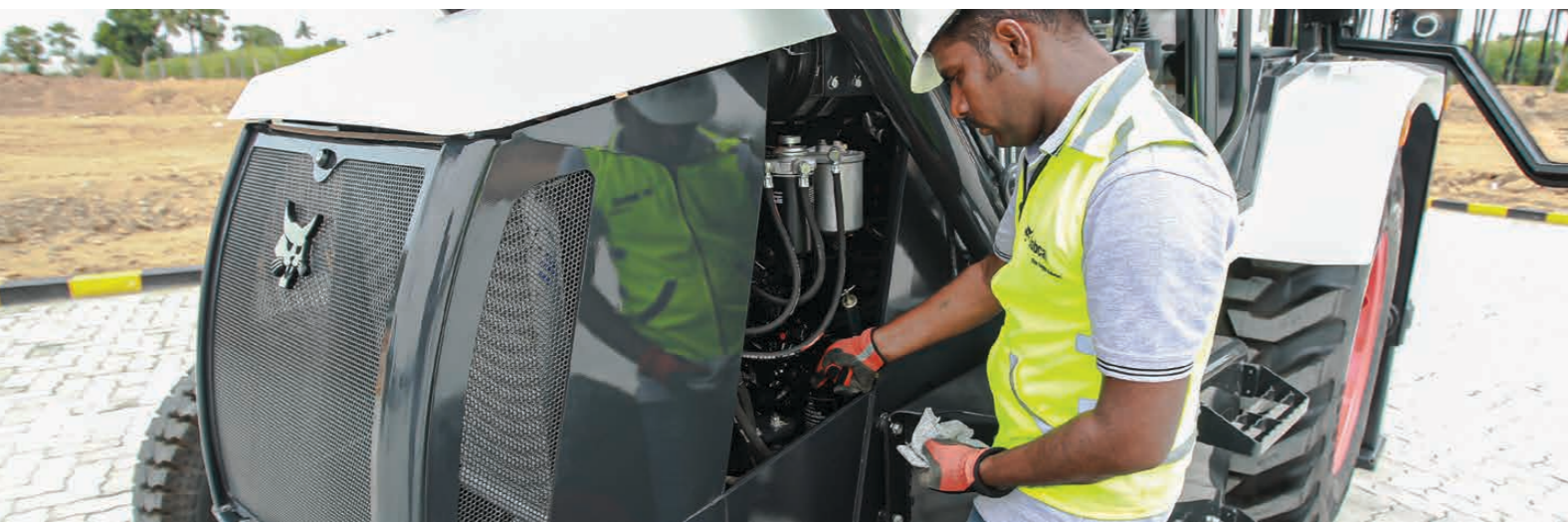


Easy access for maintenance and daily checks.

Access multiple maintenance points from one location. Saves maintenance time.



- 1 Air Filter
- 2 Fuel Water Separator
- 3 Fuel Filter
- 4 Engine Oil Filter
- 5 Engine oil filling
- 6 Engine oil level check
- 7 Transmission Oil Level Check



ATTACHMENT



Pallet Fork



6-in-1 Bucket



Ripper

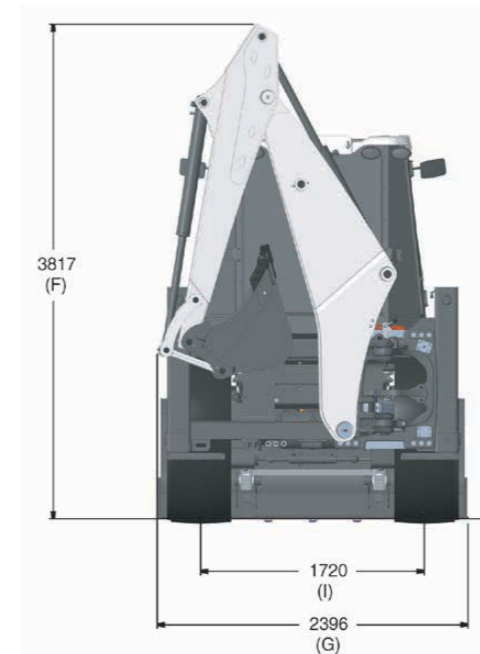
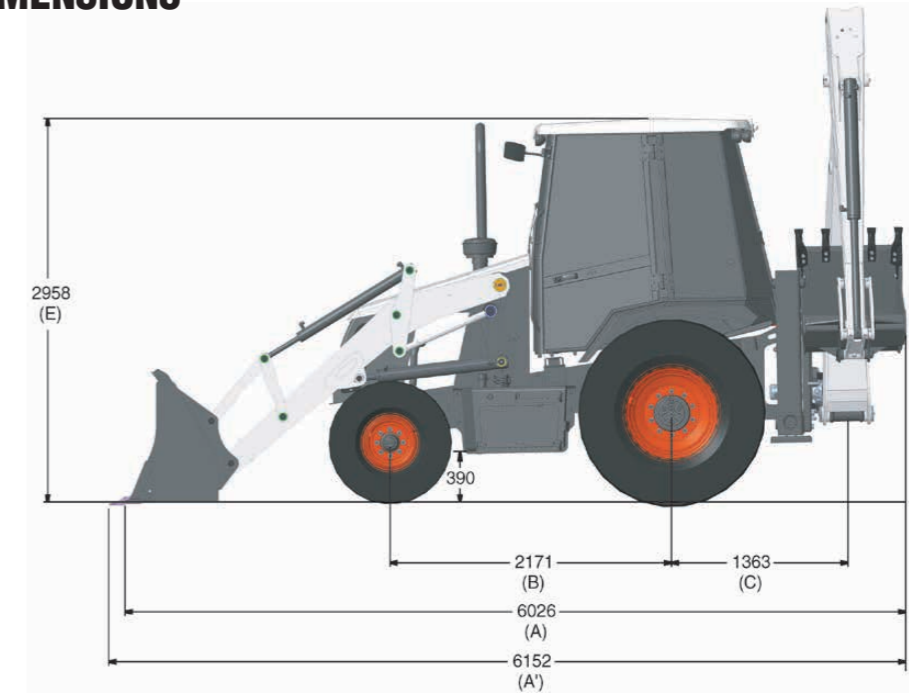


Hydraulic Breaker

TECHNICAL SPECIFICATIONS

ENGINE	
Make	Kirloskar
Model	4R1040TC
Gross Power @ 2200 Rpm	76 Hp
Maximum Torque	300Nm @ 1500+/-100
Rated Engine Speed	2200 Rpm
No of cylinders	4
Bore (mm)	105
Stroke (mm)	120
Displacement	4160 cc
Emission compliance	Bharat Stage-III (CEV)
Engine Cooling	Water Cooled
HYDRAULIC SYSTEM	
Type	Open Center Hydraulics
Pump Type	Tandem Gear Pump
Maximum Pump Capacity	55cc. (121 Liters @ 2200 Rpm)
System Pressure	220 Bar
Control Valve (Backhoe and Loader)	Section Valves (Sandwich Type) Individually Replaceable
SERVICE REFILL CAPACITIES	
	Capacity in Liters
Engine Oil	9.5
Hydraulic Tank	70
Transmission Oil	16
Rear Axle Oil	14.5
Planetary	2.6 (1.3 +1.3)
Fuel Tank	140
TRANSMISSION	
TYPE: 4 Speed (4 Forward and 4 Reverse). 2 Wheel Drive with Synchro Shuttle Transmission. Electrically operated reversing shuttle.	
Maximum Travel Speed on Road	40 Kmph
SPEED DIFFERENT GEAR POSITIONS	
Forward	Reverse
1st 5.7 kmph	1st 5.7 kmph
2nd 9.1 kmph	2nd 9.1 kmph
3rd 20.5 kmph	Not recommended
4th 40.0 kmph	Not recommended
AXLES	
Front Axle	Steer axle, centrally Pivoted, with oscillation angle 16°
Rear Axle	Rigidly mounted rear axle with outbound planetary drives.
STANDARD WEIGHTS	
Shipping Weight (kg)	7770
Operating Weight (kg)	7840
STEERING	
Type	Front Wheel Steering
TURNING CIRCLE	
Outside Front Wheels (mm) (without brake)	8500
Outside Widest Loader Bucket (mm) (without brake)	11700
Outside Front Wheels (mm) (with brake)	6300
Outside Widest Loader Bucket (mm) (with brake)	9200

MACHINE DIMENSIONS



OVERALL MACHINE DIMENSIONS	
[A] Overall machine Length in Travel Position (mm)	6026
[B] Wheelbase (mm)	2171
[C] Backhoe Swing Centre Distance (mm)	1363
[D] Minimum Ground Clearance (mm)	390
[E] Cab Height (mm)	2958
[F] Machine Height in Travel Position (mm)	3817
[G] Machine Width (mm)	2396
[H] Overall Width with Bucket (mm)	2400
[I] Rear Wheel Track Width (mm)	1720
[J] Front Wheel Track Width (mm)	1991

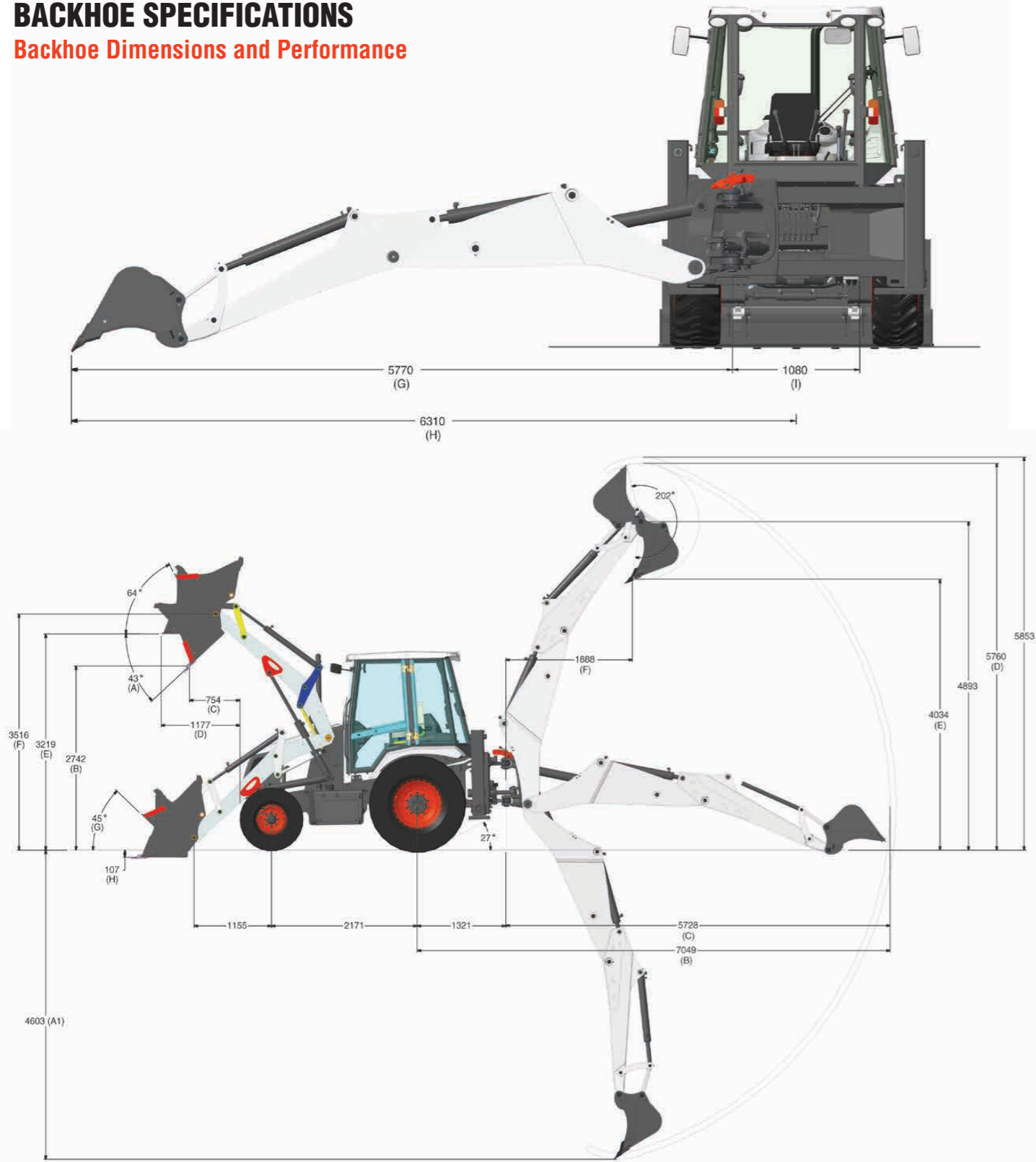
ELECTRICAL SYSTEM	
Battery	12 volts / 130 Ah
Alternator Output	90A

BUCKETS	
LOADER BUCKET	
Bucket Capacity (Cubic Meter)	1.1
Bucket Width (mm)	2400
BACKHOE BUCKET	
Bucket Capacity (Cubic Meter)	0.26
Bucket Width (mm)	821

TYRES	
Standard tyre type	Industrial
Size - Front	9 x 16
Size - Rear	16.9 x 28
Optional Tyre Type	Heavy Duty
Optional Tyre Size (Rear)	14 x 25

BACKHOE SPECIFICATIONS

Backhoe Dimensions and Performance



BACKHOE DIMENSIONS

[A1] Standard Digging Depth (mm)	4603
[A2] Maximum Digging Depth – Bobcat (mm)	4966
[B] Max Reach from Rear Axle Centre (mm)	7049
[C] Max Reach from Swing Centre (mm)	5728
[D] Maximum Digging Height (mm)	5760
[E] Maximum Dumping Height (mm)	4034
[F] Loading Reach (mm)	1888
[G] Reach-ground level to slew center (mm)	5770
[H] Side reach to center line of machine (mm)	6310

BACKHOE DIMENSIONS

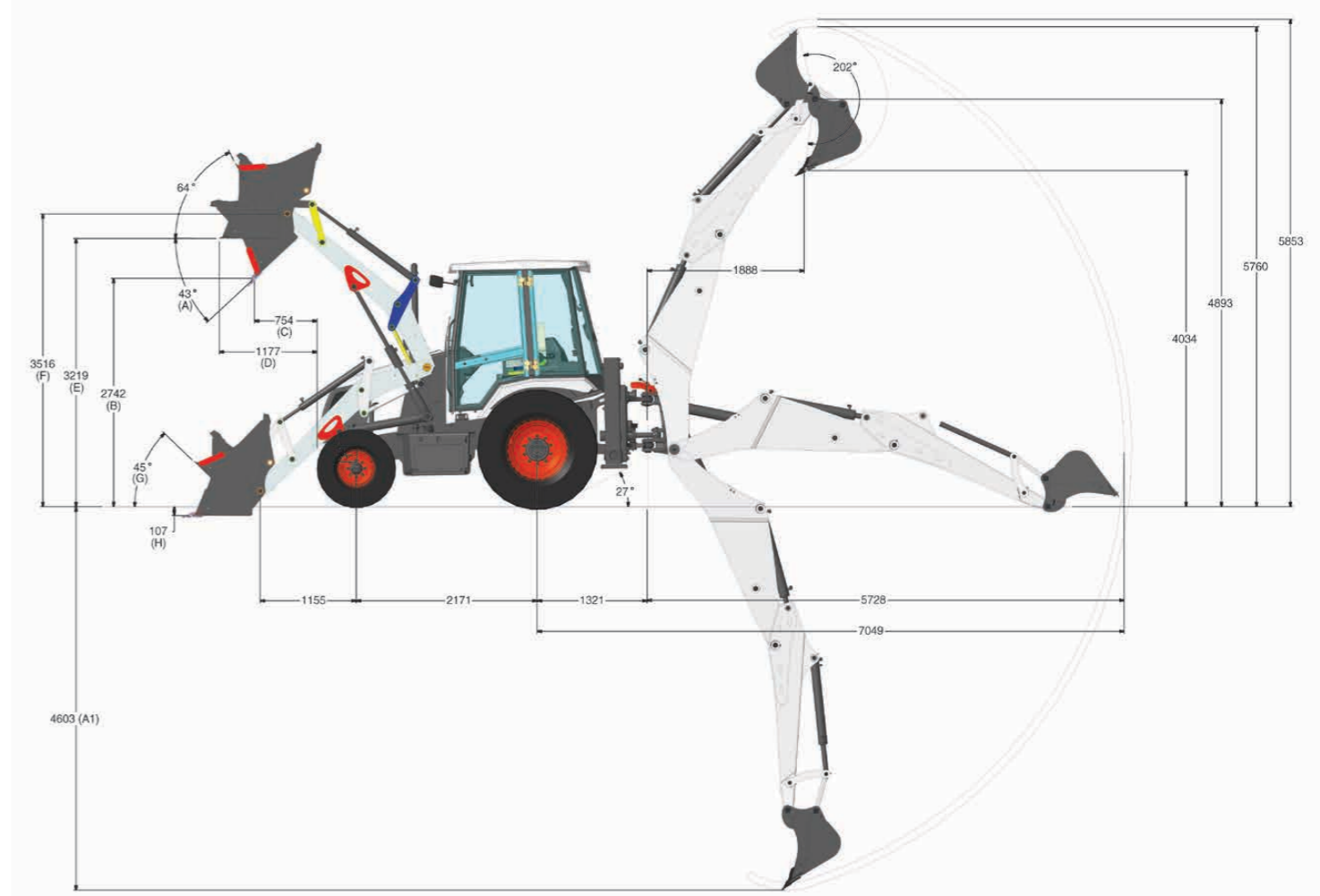
[I] Side Shift Carriage Travel Distance (mm)	1080
[J] Maximum Working Height (mm)	5853
Bucket Rotation Angle	202°

BACKHOE PERFORMANCE

Bucket Tear out Force (Kgf)	6121
Dipper Tear out Force (Kgf)	3005
Lift capacity of bucket pivot at full reach (no bucket fitted) (kg)	1607

LOADER SPECIFICATIONS

Loader Performance & Dimensions



LOADER DIMENSIONS

[A] Dump Angle at Full Height	43°
[B] Dump Height at Maximum Angle (mm)	2742
[C] Dump Reach at Maximum Angle (mm)	754
[D] Maximum Reach at full height (mm)	1177
[E] Maximum Load over height (mm)	3219
[F] Hinge Pin Height (mm)	3516
[G] Maximum Bucket Rollback at Ground Level	45°
[H] Maximum Digging Depth (mm)	107

LOADER PERFORMANCE

Lift Capacity at Maximum Height (ISO 14397-2), Kg	3492
Pay Load (kg)	2000
Shovel Breakout Force, Kgf	6115
Loader Arm Breakout Force, Kgf	5786
Maximum Hinge Pin Height (mm)	3516
Bucket Roll Back Angle at Maximum Hinge Pin Height (mm)	64°

CUSTOMER SUPPORT

We are committed towards building and growing long-lasting relationships through our products and support services. With consistent support provided throughout the lifecycle of every product, we strive to achieve maximum equipment utilization.



PRODUCT SUPPORT

Adequately resourced with qualified and experienced manpower, our channel network can offer quick resolution to all technical challenges. These technical specialists undergo regular training to help improve product & service quality.



PARTS SUPPORT

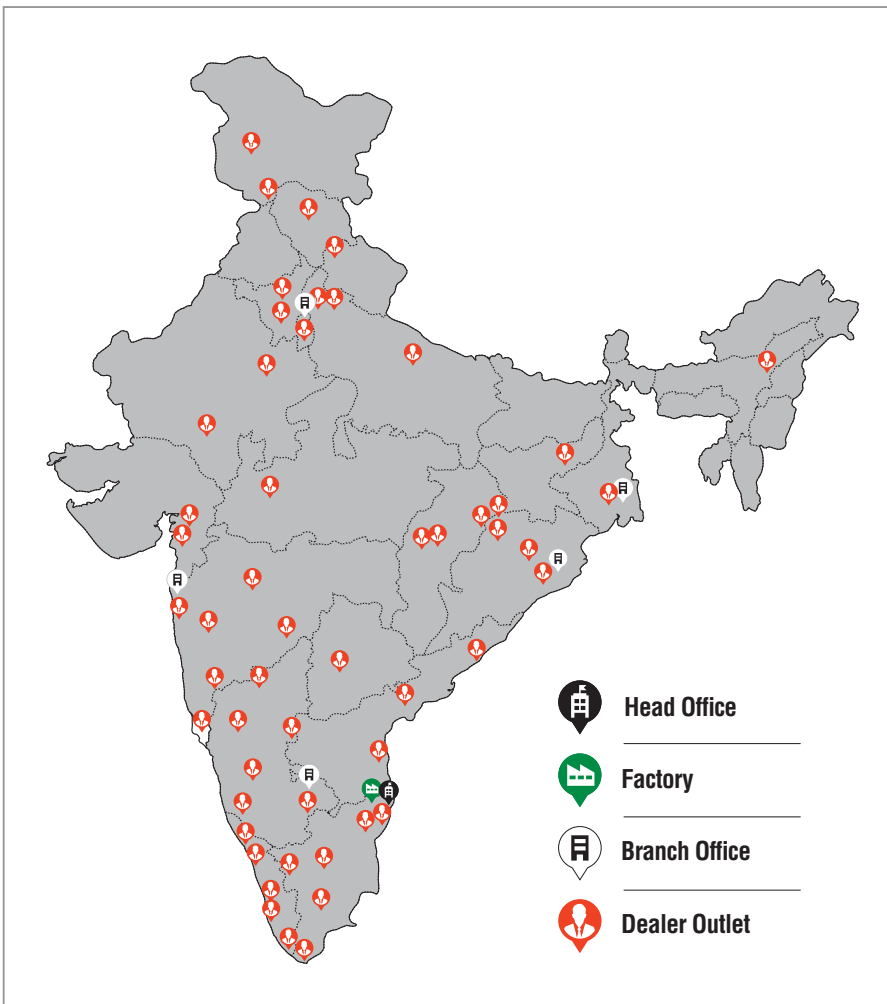
Bobcat parts inventory is well planned and stocked to ensure availability and ease in ordering and delivery.



REPAIR & MAINTENANCE

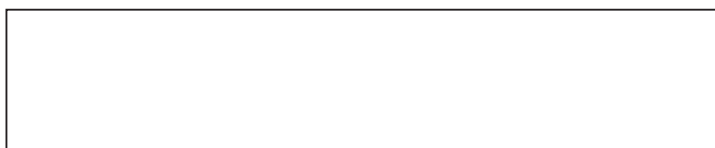
Our repair options and maintenance packages are designed to ensure that machines are always up and running. This helps you to focus on the job at hand.

DOOSAN BOBCAT NETWORK



Toll Free No.  1800 1032 869

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Doosan Bobcat India

HTC Towers, 6TH Floor, No. 41, GST Road,
Guindy, Chennai - 600 032.

☎ +91 96000 04852 🌐 www.bobcat.com

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