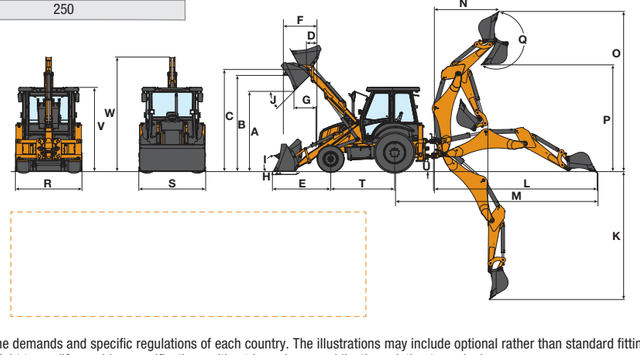
MODEL	851NX/851NX-CP	
ENGINE		
Make	CNH (India)	
Model	F28-CF28A001A*U	
Cylinders	4	
Displacement (L)	2.80	
Air intake	Turbocharged Intercooled	
Fuel injection	Electronic, Common Rail Direct Injection	
Emission level	CEV Emission Stage-V	
Max. gross power (kW/hp) @2200 rpm (ISO 14396)	55 / 74	
Max. gross torque (Nm) @1400rpm (ISO 14396)	375	
After-treatment for exhaust	DOC+DPF Only	
LOADER GENERAL DIMENSIONS		
A - Dump height (m)	2.72	
B - Load over height (m)	3.3	
C - Hinge pin height (m)	3.6	
D - Hinge pin forward reach (m)	0.24	
E - Reach at ground (m)	1.98	
F - Max. reach at full height (m)	1.19	
G - Max. reach at full height-bucket dumped (m)	0.76	
H - Below ground level-dig depth (m)	0.11	
I - Rollback at ground (degree)	33°	
J - Dump angle (degree)	45°	
Bucket capacity std. (m^3)	1.2	
Bucket breakout force (kGf/ kN)	5000 / 49	
Loader arm breakout force (kGf/ kN)	5250 / 51.4	
Max. pay load (kg)	2050	
Max. lifting capacity @ max height	3650 Kg	
BACKHOE GENERAL DIMENSIONS		
K - Max. dig depth (m)	4.7	
L - Reach ground level to swing center (m)	5.90	
M - Reach-ground level to rear wheel center (m)	7.22	
N - Reach at full height to slew center (m)	2.40	
O - Max. working height (m)	5.7	
P - Max. load over height (m)	3.8	
Bucket capacity (m^3)	0.3 / 0.41	
Q - Bucket rotation (degree)	204° & 160°	
Bucket breakout force (kGf/ kN)	204° - 5000 / 49	160° - 6550 / 64.2
Dipper tear out force (kGf/ kN)	3900 / 39.1	
Max. lift capacity (kg)	1477	
Safe working load (kg) @3.2m radius	1300	
OVERALL DIMENSIONS AND WEIGHTS		
Operating weight (kg)	7800 / 7700	
Transport length (m)	6.06	
R - Width over stabilizer (m)	2.27	
S - Width over bucket (m)	2.28	
Track width - Rear (m)	1.70	
Track width - Front (m)	1.88	
T - Wheelbase (m)	2.18	
U - Minimum ground clearance (m)	0.38	
V - Height to top of cabin (m)	2.83	
W - Overall transport height (m)	3.85	
ELECTRICAL SYSTEM		
Battery	12 volts, 110 Ah	
HYDRAULIC SYSTEM		
System type	Open Center Load Sensing	
Hydraulic type	Variable Displacement	
Pump flow (lpm)	143	
System relief pressure (bar)	250	

SERVICE CAPACITIES	
Engine oil (L) - System	8.5
Front axle - 4WD (L)	8.9
Rear axle (L)	17.1
Hydraulic oil (L) - System	96
Hydraulic oil (L) - Replacement/Interval*	44 @ 4000 hrs
Transmission oil capacity (L) - system	18-2WD, 20-4WD
Fuel tank (L)	129
Coolant (L)	10
DRIVETRAIN	
Power train type	4F-4R Power Shuttle Synchromesh Transmission
Transmission make and model	CARRARO 2WD/4WD TLB1
AXLE	
Rear	CARRARO 28.32M
Front	CNH PS1300 (2WD) CARARRO / NH 26.17M (4WD)
Front axle oscillation (degree)	± 21° on 2WD; ±16° on 4WD
STEERING	
Type	Power Steering
System pressure (bar)	140
Pump displacement (cc)	125
Turning Radius outside bucket - Braked (m)	4.6 (2WD), 4.9 (4WD)
Turning Radius outside bucket - Not braked (m)	5.55 (2WD), 5.60 (4WD)
BRAKES	
Service	Hydraulic foot operated, 2 disc per side
Parking	Mechanically actuated caliper type brake pack on rear axle input shaft
TYRE	
2 WD Front Standard tyre	9x16 -16PR
4 WD Front Standard tyre	12.5x18 -12PR
Rear Standard tyre	16.9x28 -12PR
Rear Optional HD tyre	14x25 -20PR/12PR
TRAVEL SPEED	
Forward (1st/2nd/3rd/4th) (kmph)	5.7/9.3/19.5/34
Reverse (1st/2nd/3rd/4th) (kmph)	7.0/ 11.5/ not recommended
OPTIONAL EQUIPMENT	
Drive	4 wheel drive
Loader bucket	4 in1 BDB, High Dump bucket (4m dump height)
Backhoe bucket	0.08, 0.12, 0.18, 0.26, 0.4 m^3
Dipper	15ft extendable dipper to increase reach by 1.2m
Rock Breaker	Hydraulic circuit ready for Rock breaker
Cold start kit	Yes; upto -20°C ambient temp
Cab environment	Heater ventilation and Air conditioning
Seat	High comfort fabric seat with HVAC variant
Roof	Full roof coverage with Plastic roof
Work-lamps	All LED work-lamps



ROPS- Rollover Protection Structure
FOPS - Falling Object Protection Structure
ROPS FOPS - Certified by Government Agency
*T&C apply

CIN: U29240DL1998PTC344616
CASE NEW HOLLAND CONSTRUCTION EQUIPMENT (INDIA) PRIVATE LIMITED
Level-4, Rectangle-1, D-4, District Center, Commercial Complex, Saket, New Delhi – 110017
Contact No.: 011-66544151
Email: caseindia@cnhind.com

CaseCE.com **1800 4199 770**

Follow us on @caseceindia

NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings - consult your CASE dealer. Furthermore, CNH reserves the right to modify machine specifications without incurring any obligation relating to such changes.
DISCLAIMER: ±2.5% variation on parameters may occur and is acceptable by the industry norms.

851NX Brochure Version Dated December 2024

CASE CONSTRUCTION

THE NEW ERA IN CONSTRUCTION EQUIPMENT

Presenting

THE ALL-NEW

851NX

BACKHOE LOADER

50 NEW FEATURES



2 MACHINES IN 1

myCASE CONSTRUCTION
The New Gen of Telematics

New Gen Electro Hydraulics with 3 modes

Intelligent Safety System

Eco-Friendly, High-Efficiency Powerful Engine

Resilience Champion works at extreme -20° C

ROPS FOPS

SCAN ME

ENGINEERING THE DIFFERENCE:
EXPLORING THE NX SERIES

A LEGACY OF HIGH PERFORMANCE AND INNOVATION NEW

01 Renowned and highly efficient FPT engine - Made in Bharat, Globally proven
02 Low emission, CEV Stage V Compliant
03 Auto Idle & Auto Shutdown - Cuts fuel wastage
04 50% lower Lube oil consumption - Low maintenance
05 Hydraulic lash adjustment, no tappet setting - Low maintenance
06 Self-stretchy belt solution - Economical & Low maintenance

COMFORTABLE OPERATOR STATION NEW

07 Spacious cabin with near 360° visibility, improved ergonomics
08 New LED colored display cum Cluster with Smart audio-visual warnings
09 Six way adjustable and Comfortable seat with armrests
10 Big exterior and interior Rear-view mirrors
11 Cushioned, resized steering wheel & knob
12 New Radio-Music system with handsfree Bluetooth
13 Ride-By-Wire Throttles - Hand and Foot, Smooth speed adjustment
14 USB Charging facility for Phones
15 New HVAC Cabin for tropical comfort
16 Full Top covered Plastic Roof as option
17 Large split buddy seat with lockable storage; cooled glove box in HVAC model

BETTER RELIABILITY NEW

18 Robotically welded, Wider & Stronger Boom, Swing tower for heavy duty
19 Abrasion protected plumbing & Concealed hose for Improved life
20 New Stabiliser wear pad type design - Longer service life
21 Increased ground clearance at King-Post
22 Triple stage fuel filtration - Cleaner fuel, Longer engine life
23 New robust electrical switches

~20%* MORE FUEL EFFICIENT

*Over CASE 770EX
Terms and conditions apply

ENHANCED SAFETY NEW

24 Sturdy ROPS FOPS Cabin
25 Engine protection shutdown for low downtime and low repair costs
26 New Battery cut-off switch in a secured and dust-free battery compartment
27 Electromagnetic immunity & compatibility - electronic functional safety
28 Improved Fully enclosed engine compartment
29 Very Low internal and external noise emission by Vehicle

BUILT FOR EXTREMES AND VERSATALITY NEW

30 Dual Power & Torque curve on Same machine - Efficiency & Power focussed, adjustable as per demand
31 Improved Cold start upto-20°C & high altitude
32 Easy - Field kit for Cold Start
33 Dual mounts - ECO and PWR on Backhoe Bucket to suit breakout force demand of the site
34 LED worklamps - enhanced illuminations for job sites



BACKHOE AND LOADER PRODUCTIVITY NEW

35 Simultaneous backhoe operations with Smart hydraulics ECO (60hp), STD and POWER (74hp) Modes for Backhoe Side
36 Wide range of bucket options as per site need
37 Standard lifting hook for material handling like pipe laying & towing
38 High Fill: Spill factor & Productivity backhoe buckets
39 Dual modes for Loader operations
40 Spill proof loader buckets in 1.1 cu.mand 1.2 cu.m
41 Best in class loader performance and visibility

SMART DESIGN NEW

42 4,000 Hrs Hydraulic Oil change interval
43 Variable Flow Pump with Electronic Intelligence - Saves energy & Delivers power when needed
44 Integrated smart lock on Hydraulic tank filler cap
45 Robust new Engine hood design with secure locking
46 New Hydraulic oil tank with lockable battery compartment
47 Easy to read -New Oil level tubular gauge protected all around
48 Greasing for Swing tower & Loader anti roll bar optimised
49 Quick Jump start provision for emergencies
50 App based easy to use telematics solution with 3 years subscription free

myCASE CONSTRUCTION NEW
The New Gen of Telematics

NEW CONNECTED MACHINES

- Enhanced monitoring and streamlined operations with my CASE Construction Telematics
- Boosted productivity through efficient resource allocation with fleet management
- Improved safety and security with advanced tracking and recovery capabilities
- Real-time data and downtime reduction for superior customer service
- Data-driven decision making for increased profitability