



**CASE**  
CONSTRUCTION

**THE NEW ERA IN CONSTRUCTION EQUIPMENT**  
**Presenting**  
**THE ALL-NEW**

**851NX**

**BACKHOE LOADER**

**50 NEW FEATURES**



**21**  
**MACHINES**  
**IN**

**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



**SCAN ME**

# ENGINEERING THE DIFFERENCE: EXPLORING THE NX SERIES



## A LEGACY OF HIGH PERFORMANCE AND INNOVATION



- 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



- 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



- 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



## ENHANCED SAFETY



- 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 VERSATILITY



- 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



- 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.m and 1.2 cu.m
- 41 ▶ Best in class loader performance and visibility



## SMART DESIGN



- 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

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

**20%<sup>\*</sup> MORE FUEL  
EFFICIENT**

\*Over CASE 770EX  
Terms and conditions apply



**50 NEW FEATURES**

MODEL	851NX/851NX-CP	
<b>ENGINE</b>		
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)	54.6/ 74	
Max. gross torque (Nm) @1400rpm (ISO 14396)	375	
After-treatment for exhaust	DOC+DPF Only	
<b>LOADER GENERAL DIMENSIONS</b>		
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. (m³)	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	
<b>BACKHOE GENERAL DIMENSIONS</b>		
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 (m³)	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	
<b>OVERALL DIMENSIONS AND WEIGHTS</b>		
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	
<b>ELECTRICAL SYSTEM</b>		
Battery	12 volts, 110 Ah	
<b>HYDRAULIC SYSTEM</b>		
System type	Open Center Load Sensing	
Hydraulic type	Variable Displacement	
Pump flow (lpm)	143	
System relief pressure (bar)	250	

<b>SERVICE CAPACITIES</b>	
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
<b>DRIVETRAIN</b>	
Power train type	4F-4R Power Shuttle Synchromesh Transmission
Transmission make and model	CARRARO 2WD/4WD TLB1
<b>AXLE</b>	
Rear	CARRARO 28.32M
Front	CNH PS1300 (2WD) CARARRO / NH 26.17M (4WD)
Front axle oscillation (degree)	± 21° on 2WD; ±16° on 4WD
<b>STEERING</b>	
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)
<b>BRAKES</b>	
Service	Hydraulic foot operated, 2 disc per side
Parking	Mechanically actuated caliper type brake pack on rear axle input shaft
<b>TYRE</b>	
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
<b>TRAVEL SPEED</b>	
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
<b>OPTIONAL EQUIPMENT</b>	
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 m³
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**  
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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.

