



THE NEW ERA IN CONSTRUCTION EQUIPMENT
Presenting
THE ALL-NEW

851NX CEV5

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

**20% MORE FUEL
EFFICIENT**

*Over CASE 770EX
Terms and conditions apply



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
- 50 ➤ Quick Jump start provision for emergencies

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



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)	54.6/ 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. (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
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 (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
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

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

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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.

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 Synchronesh 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 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

