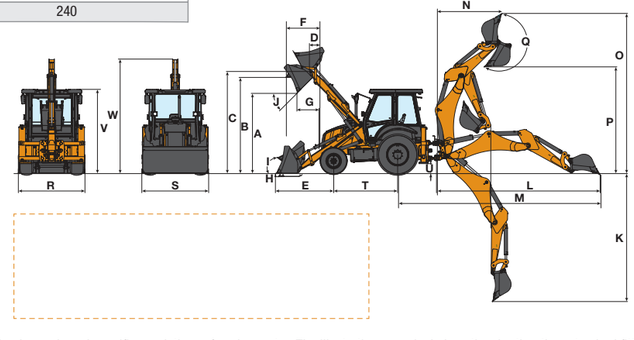
| MODEL | 851NX/851NX-CP | |
|---|---|---|
| **ENGINE** | | |
| Make | CNH (India) | |
| Model | F28-CF28A001A*U | |
| Cylinders | 4 | |
| Displacement (L) | 2.80 | |
| Air intake | Turbocharged Intercooled | |
| Fuel injection | Electronic, Common Rail Direct Injection | |
| Emission level | CEV Emission 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. ($m^3$) | 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) | 240 | |

| 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 increasereach 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**
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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.


851NX Brochure Version Dated December 2024





CASE CONSTRUCTION

# THE NEW ERA IN CONSTRUCTION EQUIPMENT

## Presenting

## THE ALL-NEW

# 851NX CEV5

## 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

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 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

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.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
50 Quick Jump start provision for emergencies

myCASE CONSTRUCTION NEW
The New Gen of Telematics

### NEW CONNECTED MACHINES NEW

- 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