

MODEL	851NX/851NX-CP
ENGINE	
Make	CNH Industrial (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)	1.1
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
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)	0.36 / 0.40
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 (2WD)
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)	NX : 5.7/9.3/19.5/34
Reverse (1st/2nd/3rd/4th) (kmph)	NX : 7.0/ 11.5/ not recommended
OPTIONAL EQUIPMENT	
Drive	4WD
Loader bucket	Bottom Dump Bucket & High Dump Bucket (4m)
Dipper	Extendahoe - extends by 1.0m
Rock Breaker Kit	Yes
Cold start kit	Yes

ROPS- Rollover Protection Structure
FOPS - Falling Object Protection Structure
ROPS FOPS - Certified by Government Agency

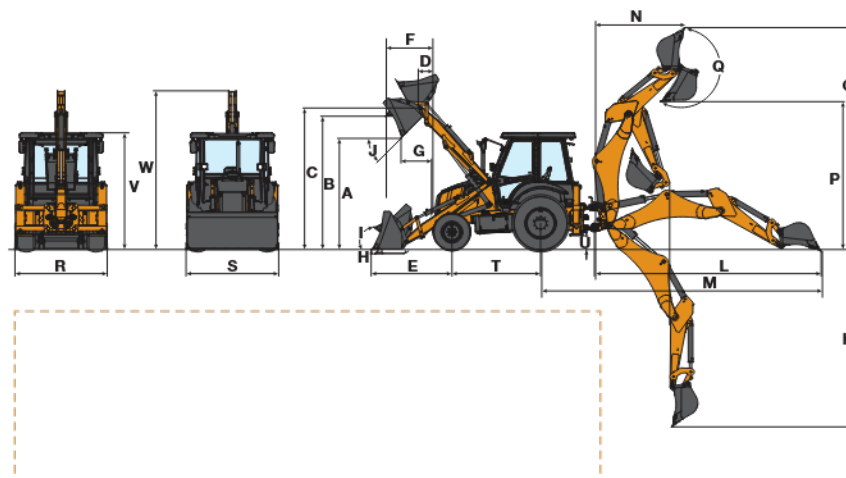
*T&C apply

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 Industrial 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

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



ENGINEERING THE DIFFERENCE:

EXPLORING THE NX SERIES



A LEGACY OF HIGH PERFORMANCE AND INNOVATION

- CNH Industrial F28 engine compliant with CEV Stage-5
- 180+ years of legacy, delivering breakthrough technology
- 10% better fuel efficiency with three working modes and external EGR technology
- Compact design for hassle-free maintenance
- Performs at extreme low ambient temperatures up to -20°C
- Enhanced durability and versatility to withstand various construction applications



BACKHOE PRODUCTIVITY

- New electro-hydraulic variable displacement pump
- Versatile operating modes: ECO, STD and POWER
- Standard lifting hook for material handling like pipe laying and towing
- Over 30 attachment options to meet operational needs
- Wide range of bucket options from 0.08 to 0.30 m³



LOADER BUCKET OPTIONS

- 1.0 m bottom dump bucket
- 1.1 m³ HDB (4m high dump bucket)



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



COMFORTABLE OPERATOR STATION

- Spacious cabin with near 360° visibility, improved ergonomics and a new color display
- Electronic throttle knob, 12V power socket, side shift lock and robust switches
- Large split buddy seat with lockable storage
- Improved seat with armrest
- New radio system with Bluetooth, hands-free phone connectivity and LED work lamps
- A quieter workspace with reduced noise levels and a cushioned, resized steering wheel



HIGH-PERFORMANCE ENGINE

- Advanced CEV Stage-5 compliant F28 engine with cleaner environment
- Service-friendly, compact design ensures lower maintenance costs
- Reliable performance in extreme temperatures up to -20°C



ENHANCED SAFETY



- Smart audio-visual warning systems
- Engine protection shutdown for low downtime and low repair costs
- New cut-off switch in a secured and dust-free battery compartment



BETTER RELIABILITY

- Reinforced with robust, robotically welded structures, sturdy axles, pins, and bushes
- Fixed metallic and flexible rubber hoses
- New stabilizer wear pad design for improved performance
- Equipped with an advanced electrical system and reliable harness
- Advanced DPF and sensors for optimized efficiency



STRAIGHT LOADER ARM

- Improved visibility, tipping and loading height
- Simplified serviceability with fewer pins and bushes, reducing maintenance time and costs
- Compatible with a wide range of buckets



CASE DNA "STYLED BACKHOE"

- Styled boom for both on-ground performance and high-body truck applications
- Exceptional digging depth and flexibility, available in 15ft and extendahoe
- Improved transport height and work visibility
- Advanced boom geometry for superior protection of hoses
- Electro-magnetic compliance and immunity compatibility



LOADER PRODUCTIVITY

- Dual modes for efficient roading and loading
- Ergonomically positioned FNR lever for enhanced maneuverability and productivity
- Enhanced fill factor with a spill-proof bucket
- Over 35 attachment options for increased versatility



IMPROVED FUEL EFFICIENCY

- New ECO mode, auto idle and auto shutdown enhance operational efficiency
- Engine protection shutdown safeguards the engine in all conditions



SMART DESIGN



- Field-ready kit for seamless cold cranking
- Enhanced boom and swing tower structure
- Redesigned engine compartment and hood
- Integrated fuel tank lock
- Rugged fuel level sensor
- Advanced braking technology

