



**CASE**  
CONSTRUCTION

# LOADER BACKHOE 851FX/ FX PLUS



**BS4**  
CEV

**4000**  
**HOUR**  
HYDRAULIC  
OIL  
CHANGE INTERVAL

# MAIN REASONS TO CHOOSE 851FX / 851FX PLUS



## CASE DNA "S'TYLED BACKHOE"

The new backhoe represents the continuity of CASE DNA. The S'tyled boom provides higher reach and better digging depth.



## BIGGER AND BETTER

With the new FX series you can reach farther and dig more per cycle with 0.3 m<sup>3</sup> standard backhoe bucket & 1.2 m<sup>3</sup> spill-proof loader bucket. The backhoe offers class leading forces, various bucket sizes and dipper options.



## FAST LOADING CYCLE

The improved FNR lever location & low effort loader lever supports fast directional change, improving site maneuverability and productivity.



## ENHANCED SAFETY

New age inclined pillar cabin provides better travel safety. Engine Protection Shutdown protects against unplanned breakdown and Audio Visual warning system makes operations safer.

\*Optional

## NEW GENERATION HYDRAULICS

### Variable Displacement Pump

New generation hydraulics with VVP (851FX Plus) optimizes hydraulic oil flow as per load and improves fuel consumption up to 12% which combined with ECO Mode and AUTO IDLE offers up to 15% better fuel economy and potential saving worth Rs. 2.5 Lacs annually. Conventional gear pump option also available with (851FX).

Up To **12%\***  
Fuel Savings With  
Variable Pump



FX Plus Offers  
Up To **15%\***  
Fuel Savings



## POWERED FOR ANY APPLICATION

The 97 hp engine delivers class leading 453 Nm torque powering up the machine for any application. 4WD\* makes it ready for the toughest jobs specially during uphill and dozing application.



## HIGH VISIBILITY

Sloping hood, side mounted exhaust, new side quarter windows, internal rear view mirror, newly positioned work lamps and low glare cabin interiors improve all around visibility.



## STRAIGHT LOADER ARM

The CASE straight loader arm ensures better work visibility, high dump height, better loading performance and good site maneuverability. It also ensures up to 25% less daily maintenance time.



## IMPROVED FUEL EFFICIENCY

ECO mode & one-touch Auto Idle feature gives fuel savings up to 6%.



## BACKHOE SIMULTANEOUS OPERATION

Simultaneous operation of backhoe levers with optimized cycle times gives better productivity.



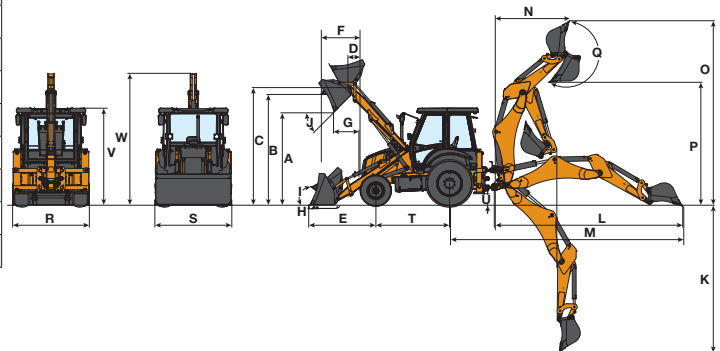
## NEW WORLD CLASS CABIN

- The new gen MID - Crystal clear gauges showing critical machine parameter
- Audio and visual warning system & Engine protection shutdown
- On-cluster controls - ECO mode, Auto idle, Electronic RPM knob, 2WD/4WD selector
- Mobile holder on right pillar with HVAC model
- 12V power socket and USB port, HVAC controls on the right
- New parking brake mechanism and Backhoe lever mounted horn
- Split and lockable buddy seat and comfortable operator seat
- Up to 21% higher storage spaces
- Optional HVAC with standard cabin fan

\*T&C apply. Under standard test conditions when compared to the earlier model.

| MODEL   | 851FX                                   | 851FX Plus            |
|---|---|-----------------------|
| <b>ENGINE</b>                                   | <b>FPT</b>                              |                       |
| Engine Model                                    | F5BFL413A*W                             |                       |
| Emission Compliant                              | CEV Stage IV                            |                       |
| Engine Displacement (L)                         | 3.4                                     |                       |
| Engine Gross Power (kW)                         | 72 (97 hp) @2200 rpm                    |                       |
| Engine Max. Torque @1400 rpm (Nm)               | 459                                     |                       |
| <b>HYDRAULIC SYSTEM</b>                         |   |                       |
| System Type                                     | Closed Centre                           |                       |
| Pump Type                                       | Twin Gear                               | Variable Displacement |
| Pump Flow (lpm) @rated rpm                      | 154                                     | 156                   |
| System Relief Pressure (bar)                    | 210                                     |                       |
| <b>LOADER GENERAL DIMENSION</b>                 |   |                       |
| A - Dump Height (m)                             | 2.66                                    |                       |
| 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)                         | 2.08 (Std.), 1.98 (BDB)                 |                       |
| F - Max. Reach at Full Height (m)               | 1.19 (2WD), 1.15 (4WD)                  |                       |
| G - Max. Reach at Full Height-Bucket Dumped (m) | 0.84                                    |                       |
| H - Below Ground Level-Dig Depth (m)            | 0.11                                    |                       |
| I - Rollback at Ground (deg.)                   | 33                                      |                       |
| J - Dump Angle (deg.)                           | 45                                      |                       |
| Bucket Capacity Std. (cum)                      | 1.2                                     |                       |
| Bucket Breakout Force (kgf/ kN)                 | 5520/ 54.11 (Std.)<br>6250/ 61.29 (BDB) |                       |
| Loader Arm Breakout Force (kgf/ kN)             | 4937/ 48.4 (Std.)<br>5115/ 50.2 (BDB)   |                       |
| Maximum Lifting Capacity @ Max. Height          | 3700                                    |                       |
| <b>BACKHOE GENERAL DIMENSIONS</b>               |   |                       |
| Dipper Configuration (m)                        | 4.6 (15 ft)                             |                       |
| K - Max. Dig Depth (m)                          | 4.7                                     |                       |
| L - Reach Ground Level to Swing Center (m)      | 5.9                                     |                       |
| M - Reach-Ground Level to Rear Wheel Centre (m) | 7.23                                    |                       |
| N - Reach at Full Height to Slew Centre (m)     | 2.34                                    |                       |
| O - Max. Working Height (m)                     | 5.7                                     |                       |
| P - Max. Load Over Height (m)                   | 3.8                                     |                       |
| Bucket Capacity (cum)                           | 0.3                                     |                       |
| Q - Bucket Rotation (degree)                    | 204                                     |                       |
| Bucket Breakout Force (kgf/ kN)                 | 5616/ 55.1                              |                       |
| Dipper Tearout Force (kgf/ kN)                  | 3780/ 37.1                              |                       |
| Max. Lift Capacity (kg)                         | 1530                                    |                       |
| Safe Working Load (kg) @3.2m Radius             | 1100                                    |                       |
| <b>OVERALL DIMENSIONS AND WEIGHTS</b>           |   |                       |
| Max. Operating Weight (Kg)                      | 8100                                    |                       |
| Transport Length (m)                            | 6.06                                    |                       |
| R - Width Over Stabilizer (m)                   | 2.27                                    |                       |
| S - Width Over Bucket (m)                       | 2.3                                     |                       |
| Track Width- Rear (m)                           | 1.7                                     |                       |
| Track width- Front (m)                          | 1.88 (2WD), 1.90 (4WD)                  |                       |
| 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>SERVICE CAPACITIES</b>                    |   |
|--|---|
| Engine Oil (L) - System                      | 9.1   |
| Rear Axle (L)                                | 17.1  |
| Front Axle (L) - 4WD                         | 8.9 (CARRARO), 10.6 (NH)                        |
| Hydraulic Oil (L) - Replacement/ Interval*   | 80/ 4000 hrs                                    |
| Transmission Oil (L) - System                | 18-2WD, 20-4WD                                  |
| DEF Tank Capacity (L)                        | 21  |
| Fuel Tank (L)                                | 129   |
| Coolant (L)                                  | 20  |
| <b>POWERTRAIN</b>                            |   |
| Power Train Type                             | Power Shuttle with TC                           |
| Transmission Make and Model                  | CARRARO 2WD/4WD TLB1                            |
| <b>AXLE</b>                                  |   |
| Rear   | CARRARO 28.32M                                  |
| Front  | CARRARO/ CNH 26.17M (4WD),<br>CNH PS 1300 (2WD) |
| Front Axle Oscillation (degree)              | ±21 (2WD), ±16 (4WD)                            |
| <b>STEERING</b>                              |   |
| Type   | Power Steering                                  |
| System Pressure (bar)                        | 140   |
| Pump Displacement (cc)                       | 125   |
| Turning Circle Outside Bucket-Braked (m)     | 9.2 (2WD), 9.8 (4WD)                            |
| Turning Circle Outside Bucket-Not Braked (m) | 11.1 (2WD), 11.2 (4WD)                          |
| <b>BRAKES</b>                                |   |
| Service                                      | Wet Multi Discs, 4 Discs                        |
| Parking                                      | Manual with Lever                               |
| <b>TYRE</b>                                  |   |
| 2WD - Standard - Front                       | 9.0 x 16 – 16 PR                                |
| 2WD - Standard - Rear                        | 16.9 x 28 – 12 PR                               |
| 2WD - Heavy Duty - Rear                      | 14.0 x 25 – 20 PR                               |
| 4WD - Heavy Duty - Front                     | 12.5 x 18 – 12 PR                               |
| 4WD - Standard - Rear                        | 16.9 x 28 – 12 PR                               |
| <b>ELECTRICAL SYSTEM</b>                     |   |
| Battery                                      | 12 volts, 110 Ah                                |
| <b>TRAVEL SPEED</b>                          |   |
| Forward (1st/2nd/3rd/4th) (km/ hr)           | 6.2/10.0/20.7/39.2                              |
| Reverse (1st/2nd/3rd/4th) (km/ hr)           | 7.4/12.0/24.8/NR                                |
| <b>OPTIONAL EQUIPMENT</b>                    |   |
| Cabin  | HVAC  |
| Drive  | 4WD   |
| Fenders                                      | Front in 4WD                                    |
| Loader Bucket                                | Bottom Dump Bucket                              |
| Dipper                                       | Extendhoe (3 ft Extended Dipper)                |
| Counterweight (kg)                           | 211/ 355  |
| Tyre   | Heavy Duty                                      |
| Hammer                                       | RBC kit   |



\*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 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.