

WORLD'S MOST  
EFFICIENT BACKHOE



**MODELS**

HEAVY DUTY  
**HD 76**

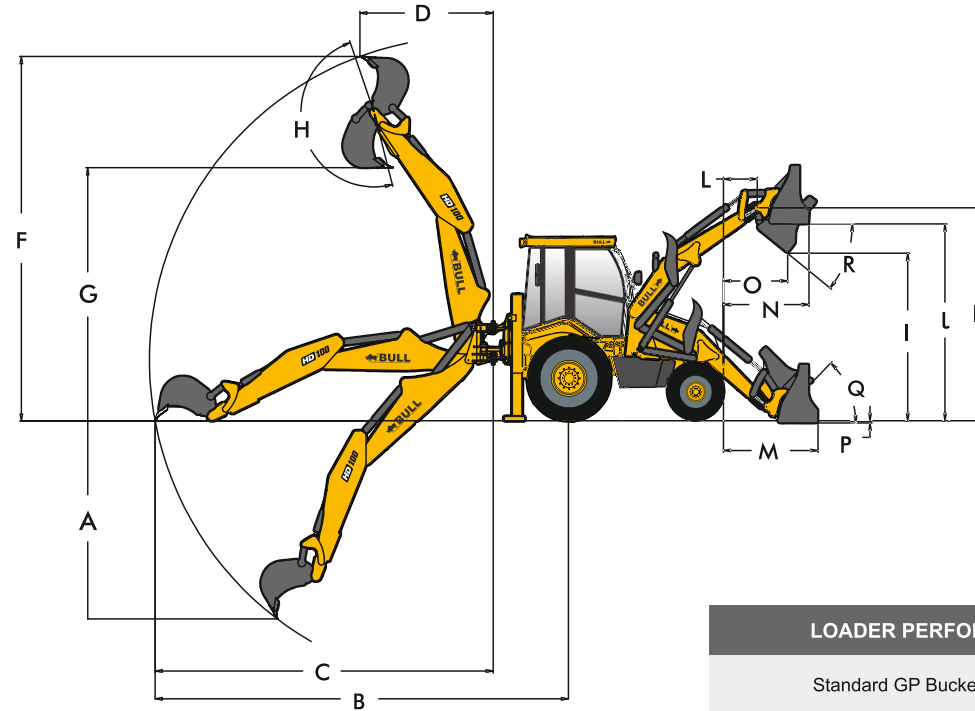
HEAVY DUTY  
**HD 96**

HEAVY DUTY  
**HD 100**

**THE TRUE ALL ROUNDER**

**BULL****HD 76****HD 96****HD 100****HD 100**

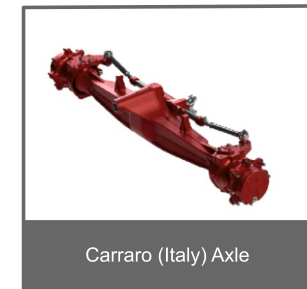
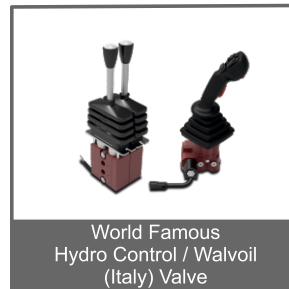
| ENGINE             | Kirloskar 4R1040NA, Non Emission Diesel Engine (4160 CC)<br>Gross Power : <b>56 kW (76HP) @ 2200 RPM</b><br>Gross Torque : <b>304.5 Nm @ 1320 RPM</b>                     |         |         | Kirloskar 4R1040T, Non-Emission Diesel Engine (4160 CC)<br>Gross Power : <b>70.6 kW (96 HP) @ 2200 RPM</b><br>Gross Torque : <b>377 Nm @ 1400 RPM</b>                     |         |         | PERKINS 1104D-44TA, EU NRMM 97/68/ EC EURO III A Diesel Engine (4400CC)<br>Gross Power: <b>74.5 kW (100HP) at 2200 RPM</b><br>Gross Torque: <b>410Nm@1400 RPM</b>           |         |         | PERKINS 1104D-44TA, EU NRMM 97/68/ EC EURO III A Diesel Engine (4400CC)<br>Gross Power: <b>74.5 kW (100HP) at 2200 RPM</b><br>Gross Torque: <b>410Nm@1400 RPM</b>                                                                               |         |         |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| TRANSMISSION       | <b>CARRARO</b> Synchro - Shuttle Transmission with integral torque converter                                                                                              |         |         | <b>CARRARO</b> Synchro - Shuttle Transmission with integral torque converter                                                                                              |         |         | <b>CARRARO</b> Synchro - Shuttle Transmission with integral torque converter                                                                                                |         |         | <b>ZF / CARRARO SPS</b> Power Shift Transmission with integral torque converter                                                                                                                                                                 |         |         |
| STEERING           | Power Steering                                                                                                                                                            |         |         | Power Steering                                                                                                                                                            |         |         | Power Steering                                                                                                                                                              |         |         | Power Steering                                                                                                                                                                                                                                  |         |         |
| ELECTRICALS        | 12V Battery Systems <b>(130Ah)</b>                                                                                                                                        |         |         | 12V Battery System <b>(180Ah)</b>                                                                                                                                         |         |         | 12V Battery System <b>(180Ah)</b>                                                                                                                                           |         |         | 12V Battery System <b>(180Ah)</b>                                                                                                                                                                                                               |         |         |
| TYRES              | <b>FRONT</b> 2WD- 9.00X16 - 16PR<br>4WD- 12.5/80X18 - 12PR<br><b>REAR</b> Industrial (Standard) : 16.9X28 - 12PR<br>Optional :19.5LX24 - 12PR<br>Heavy Duty :14X25 - 20PR |         |         | <b>FRONT</b> 2WD- 9.00X16 - 16PR<br>4WD- 12.5/80X18 - 12PR<br><b>REAR</b> Industrial (Standard) : 16.9X28 - 12PR<br>Optional :19.5LX24 - 12PR<br>Heavy Duty :14X25 - 20PR |         |         | <b>FRONT</b> 2WD- 9.00X16 - 16PR<br>4WD- 12.5/80X18 - 12PR<br><b>REAR</b> Industrial (Standard) : 16.9X28 - 12PR<br>Optional : 19.5LX24 - 12PR<br>Heavy Duty : 14X25 - 20PR |         |         | <b>FRONT</b> 4WD- 12.5/80X18 - 12PR<br><b>REAR</b> Industrial (Standard) : 16.9X28 - 12PR<br>Optional : 19.5LX24 - 12PR<br>Heavy Duty : 14X25 - 20PR                                                                                            |         |         |
| SPEED              | Forward Max : <b>39 Km/Hr</b><br>Reverse Max : <b>20.3 Km/Hr</b> (3 <sup>rd</sup> Gear Recommended)                                                                       |         |         | Forward Max : <b>40 Km/Hr</b><br>Reverse Max : <b>20.3 Km/Hr</b> (3 <sup>rd</sup> Gear Recommended)                                                                       |         |         | Forward Max : <b>41 Km/Hr</b><br>Reverse Max : <b>20.3 Km/Hr</b> (3 <sup>rd</sup> Gear Recommended)                                                                         |         |         | Forward Max : <b>38.3 Km/Hr</b> (CARRARO SPS)<br>Reverse Max : <b>20.3 Km/Hr</b> (CARRARO SPS) (3 <sup>rd</sup> Gear Recommended)<br><br>Forward Max : <b>37 Km/Hr</b> (ZF)<br>Reverse Max : <b>22 Km/Hr</b> (3 <sup>rd</sup> Gear Recommended) |         |         |
| HYDRAULICS         | Hydraulics : <b>3335 p.s.i (230 bar)</b><br>Pump Flow : <b>113 LPM @ 2200 RPM</b><br>: <b>122 LPM @ high RPM</b><br>Pump Type : <b>Gear Pump</b>                          |         |         | Hydraulics : <b>3480 p.s.i (240 bar)</b><br>Pump Flow : <b>134 LPM @ 2200 RPM</b><br>: <b>145 LPM @ high RPM</b><br>Pump Type : <b>GEAR PUMP</b>                          |         |         | Hydraulics : <b>3480 p.s.i (240 bar)</b><br>Pump flow : <b>145 LPM @ 2200 RPM</b><br>: <b>157 LPM @ high RPM</b><br>Pump Type : <b>GEAR PUMP</b>                            |         |         | Hydraulics : <b>3480 p.s.i (240 bar)</b><br>Pump flow : <b>145 LPM @ 2200 RPM</b><br>: <b>157 LPM @ high RPM</b><br>Pump Type : <b>GEAR PUMP</b>                                                                                                |         |         |
| WEIGHT             | <b>7960 Kgs</b> with Standard <b>GP</b> Bucket option                                                                                                                     |         |         | <b>8150 Kgs</b> with Standard <b>GP</b> Bucket option                                                                                                                     |         |         | <b>8200 Kgs</b> with Standard <b>GP</b> Bucket option                                                                                                                       |         |         | <b>8200 Kgs</b> with Standard <b>GP</b> Bucket option                                                                                                                                                                                           |         |         |
| SERVICE CAPACITIES | HD 76                                                                                                                                                                     |         |         | HD 96                                                                                                                                                                     |         |         | HD 100                                                                                                                                                                      |         |         | HD 100                                                                                                                                                                                                                                          |         |         |
|                    |                                                                                                                                                                           | System  | Service |                                                                                                                                                                           | System  | Service |                                                                                                                                                                             | System  | Service |                                                                                                                                                                                                                                                 | System  | Service |
|                    | Hydraulic Tank                                                                                                                                                            | 120 Ltr | 100 Ltr | Hydraulic Tank                                                                                                                                                            | 120 Ltr | 100 Ltr | Hydraulic Tank                                                                                                                                                              | 120 Ltr | 100 Ltr | Hydraulic Tank                                                                                                                                                                                                                                  | 120 Ltr | 100 Ltr |
|                    | Fuel Tank                                                                                                                                                                 | 150 Ltr | 145 Ltr | Fuel Tank                                                                                                                                                                 | 150 Ltr | 145 Ltr | Fuel Tank                                                                                                                                                                   | 150 Ltr | 145 Ltr | Fuel Tank                                                                                                                                                                                                                                       | 150 Ltr | 145 Ltr |
|                    | Engine Coolant                                                                                                                                                            | 17 Ltr  | 15 Ltr  | Engine Coolant                                                                                                                                                            | 17 Ltr  | 15 Ltr  | Engine Coolant                                                                                                                                                              | 17 Ltr  | 15 Ltr  | Engine Coolant                                                                                                                                                                                                                                  | 17 Ltr  | 15 Ltr  |
|                    | Engine Oil                                                                                                                                                                | 13 Ltr  | 13 Ltr  | Engine Oil                                                                                                                                                                | 13 Ltr  | 13 Ltr  | Engine Oil                                                                                                                                                                  | 13 Ltr  | 13 Ltr  | Engine Oil                                                                                                                                                                                                                                      | 13 Ltr  | 13 Ltr  |
|                    | Transmission                                                                                                                                                              | 19.5Ltr | 13 Ltr  | Transmission                                                                                                                                                              | 19.5Ltr | 13 Ltr  | Transmission                                                                                                                                                                | 19.5Ltr | 13 Ltr  | Transmission                                                                                                                                                                                                                                    | 19.5Ltr | 13 Ltr  |
|                    | Rear Axle                                                                                                                                                                 | 17 Ltr  | 17 Ltr  | Rear Axle                                                                                                                                                                 | 17 Ltr  | 17 Ltr  | Rear Axle                                                                                                                                                                   | 17 Ltr  | 17 Ltr  | Rear Axle                                                                                                                                                                                                                                       | 17 Ltr  | 17 Ltr  |
|                    | 4WD Front Axle                                                                                                                                                            | 10 Ltr  | 10 Ltr  | 4WD Front Axle                                                                                                                                                            | 10 Ltr  | 10 Ltr  | 4WD Front Axle                                                                                                                                                              | 10 Ltr  | 10 Ltr  | 4WD Front Axle                                                                                                                                                                                                                                  | 10 Ltr  | 10 Ltr  |
| OPTIONS            | Ditch Cleaning Bucket   Square Hole Bucket   Rock breaker   Ripper tooth   Trench bucket   Taper Ditching bucket   Multipurpose 6 in 1 bucket   Telescopic Dipper         |         |         |                                                                                                                                                                           |         |         |                                                                                                                                                                             |         |         |                                                                                                                                                                                                                                                 |         |         |



| EXCAVATOR PERFORMANCE       |                                                                     | 76 HP          |                            | 96 HP          |                            | 100 HP         |                            |
|-----------------------------|---------------------------------------------------------------------|----------------|----------------------------|----------------|----------------------------|----------------|----------------------------|
|                             |                                                                     | Retraction STD | Telescopic Dipper (option) | Retraction STD | Telescopic Dipper (option) | Retraction STD | Telescopic Dipper (option) |
| Standard GP Bucket Capacity |                                                                     | 0.27 cu.m      |                            | 0.27 cu.m      |                            | 0.27 cu.m      |                            |
| A                           | Maximum DIG depth                                                   | 4.60 m         | 5.60 m                     | 4.60 m         | 5.60 m                     | 4.60 m         | 5.60 m                     |
| B                           | Reach Ground Level to Rear wheel center                             | 6.81 m         | 7.91 m                     | 6.81 m         | 7.91 m                     | 6.81 m         | 7.91 m                     |
| C                           | Reach at Ground level to slew center                                | 5.50 m         | 6.60 m                     | 5.50 m         | 6.60 m                     | 5.50 m         | 6.60 m                     |
| D                           | Reach at full height to slew center                                 | 2.85 m         | 3.56 m                     | 2.85 m         | 3.56 m                     | 2.85 m         | 3.56 m                     |
| F                           | Maximum working height                                              | 6.08 m         | 6.77 m                     | 6.08 m         | 6.77 m                     | 6.08 m         | 6.77 m                     |
| G                           | Maximum Load over Height                                            | 4.38 m         | 5.02 m                     | 4.38 m         | 5.02 m                     | 4.38 m         | 5.02 m                     |
| H                           | Bucket Rotation power                                               | 188°           |                            | 188°           |                            | 188°           |                            |
|                             | Bucket Tear out force                                               | 6531 Kgf       |                            | 6851 Kgf       |                            | 6851 Kgf       |                            |
|                             | Dipper Tear out force                                               | 3150 Kgf       |                            | 3316 Kgf       |                            | 3316 Kgf       |                            |
|                             | Lift Capacity to bucket pivot at full reach (without bucket fitted) | 1400 Kgs       |                            | 1400 Kgs       |                            | 1400 Kgs       |                            |

| LOADER PERFORMANCE          |                                          | 76HP      | 96HP      | 100HP     |
|-----------------------------|------------------------------------------|-----------|-----------|-----------|
| Standard GP Bucket Capacity |                                          | 1.26 cu.m | 1.26 cu.m | 1.26 cu.m |
| I                           | Dump Height                              | 2.96 m    | 2.96 m    | 2.96 m    |
| J                           | Load Over Height                         | 3.39 m    | 3.39 m    | 3.39 m    |
| K                           | Pin Height                               | 3.61 m    | 3.61 m    | 3.61 m    |
| L                           | Pin Forward Reach                        | 0.42 m    | 0.42 m    | 0.42 m    |
| M                           | Reach at Ground                          | 1.60 m    | 1.60 m    | 1.60 m    |
| N                           | Reach at full height                     | 1.42 m    | 1.42 m    | 1.42 m    |
| O                           | Reach at full Height bkt Dumping         | 1.1 m     | 1.1 m     | 1.1 m     |
| P                           | Below ground level DIG Depth             | 0.08 m    | 0.08 m    | 0.08 m    |
| Q                           | Roll back at Ground                      | 50°       | 50°       | 50°       |
| R                           | Dump Angle                               | 45°       | 45°       | 45°       |
|                             | Bucket Break-out Force                   | 8183 Kgf  | 8793 Kgf  | 8793 Kgf  |
|                             | Loader Arm Break-out Force               | 5315 Kgf  | 5642 Kgf  | 5642 Kgf  |
|                             | Pay Load                                 | 2000 Kgf  | 2000 Kgf  | 2000 Kgf  |
|                             | Rated Operating Capacity at full height" | 3478 Kgf  | 3478 Kgf  | 3478 Kgf  |

## WORLD'S BEST COMPONENTS



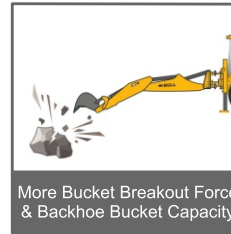


## MULTIPLE LOADER BUCKET OPTIONS



## SALIENT FEATURES

All machines come with advanced features that enhance their performance, productivity and reliability to the highest level



More Bucket Breakout Force & Backhoe Bucket Capacity



Heavy Weight Champion



Most fuel efficient backhoe in the world in its class\*



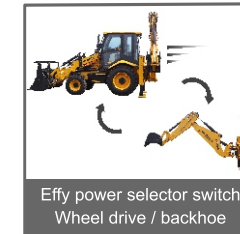
The Tallest Dumping Backhoe Loader in the World



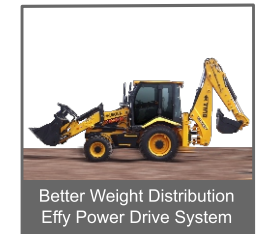
Optional Quick Hitch



Powder Coating : Scratch Resistant Painting



Effy power selector switch Wheel drive / backhoe



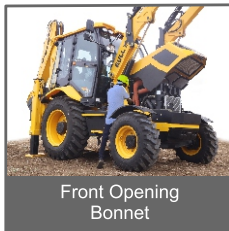
Better Weight Distribution Effy Power Drive System

## EASY TO MAINTAIN AT LOW COST

An Operator friendly machine that facilitates and alerts the operator for regular maintenance.



Engine high temperature Warning Alarm



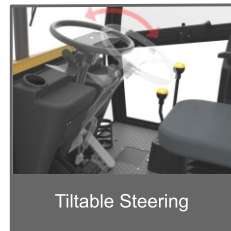
Front Opening Bonnet



Single layer Radiator/ Cooler: Easy to clean

## WORLD CLASS CABIN COMFORT

Incorporated with features for the practical needs of the operator for uninterrupted fatigue free working for longer hours.



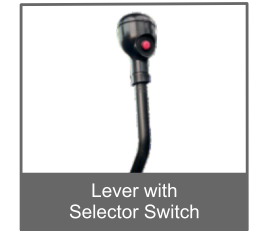
Tiltable Steering



Forward Reverse Switch



6 - Directional Airflow Technology



Lever with Selector Switch

## Our other range of products



**BULL MACHINES PVT.LTD,**  
Trichy Road, Coimbatore. INDIA  
+91 98422 87770  
sales@bullmachine.com  
exports@bullmachine.com

Dealer

