



THE WORLD'S MOST EFFICIENT
BACKHOE LOADER



HEAVY DUTY
HD 100

THE TRUE ALL-ROUNDER

UNMATCHED STRENGTH UNSTOPPABLE PROGRESS

Every Bull machine is engineered with advanced features to deliver peak performance, unmatched reliability, and maximum productivity.



SALIENT FEATURES

➤ PERFORMANCE & POWER

Highest Tearout Force &
Backhoe Bucket Capacity



Heavy
Weight Champion



Better Weight Distribution with
Effy Power Drive System



The **Tallest Dumping**
Backhoe Loader
in the World

DUMPING
HEIGHT
2.96
METRE



> EFFICIENCY

The Most
Fuel-Efficient
backhoe in the
world in its class*



ECO Mode
Smart Hydraulics
Proven Fine-tuned Engine

**Bull's Signature
Efficiency Formula**

*Compared to World Leader

Effy Power Selector
Switch Wheel Drive / Backhoe



> DURABILITY & DESIGN



Powder Coating:
Scratch Resistant Painting



Optional **Quick Hitch**

WORLD CLASS CABIN COMFORT



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



AIR CONDITIONING

Six-directional airflow provides uniform cooling and all-day operator comfort, even in the toughest environments.



TILTABLE STEERING

The Adjustable steering column allows operators to set the perfect driving position for maximum comfort and control.

AIR CUSHION



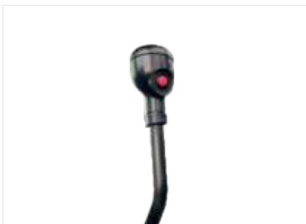
COMFORTABLE SEAT

Ergonomically designed seat with air suspension absorbs vibrations, reducing fatigue during long working hours.



FORWARD REVERSE SWITCH

Effortlessly change direction with a fingertip switch, ensuring smooth and efficient operation without strain.



LEVER WITH SELECTOR SWITCH

Multi-function lever enables smooth 3-action control for attachments like the grabbing fork and 6-in-1 bucket.



ROPS & FOPS PROTECTION

ROPS & FOPS Protection against rollover and falling objects. The BULL cabin protects the operator from rollovers and falling debris.

SQUARE CUT 90° FOUNDATION BUCKET



Specifically designed for precise square cuts in **civil foundation pits and water tank, septic tank, trenches** – against the popular demand of civil engineers.



Perfect Square Cut Bucket

World's best
cutting angle for
perfect finishing
of pits at 90°
Foundation Bucket



No Manpower Problem

Eliminates the
need for manual
finishing
manpower



No Manual Trim

Eliminates
manual trimming,
enhancing safety

MULTIPLE LOADER BUCKET OPTIONS

WHEN PERFORMANCE MEETS
FLEXIBILITY
THE ALL ROUNDER MACHINE



Quick Hitch

Booster Bucket
13ft Dump Height

6 in 1 Bucket

Fork Lift

WITH QUICK HITCH

Trench Bucket

Rock Breaker

Bale Grabber

Grabbing Fork

Concrete Mixer

42+ Types of attachments
BUCKET INTERCHANGEABLE
PLUS ADAPTABLE | SEGMENT | REVENUE

POWDER COATING SCRATCH RESISTANCE



**World Class
Powder Coating Plant**



GRID BLASTING

3X



POWDER COATING



**No Fading & No Scratches
Powder Coating**



Normal Paint

>> PIN & BUSHES LIFE

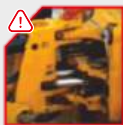


3X LONGER LIFE

> HEAVY DUTY STEEL KING POST



BULL



**OTHERS
CASTING**

**BUILT WITH
THE WORLD'S BEST**

ENGINE



PERKINS
Engine 100 HP

 **410 Nm**



PUMP

Casappa Pump (Italy)



TRANSMISSION

Carraro Transmission (Italy)



BRAKE

Carlisle Brake (USA)



AXLE

Carraro Axle (Italy)



VALVE

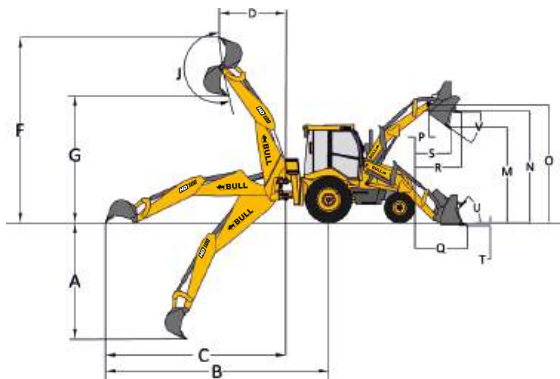
Hydro Control Valve / Walvoil (Italy) Globally renowned brand

RADIATOR



AKG Radiator Cooler (Germany)

DIMENSIONS

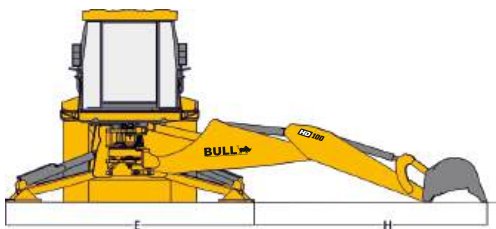


LOADER PERFORMANCE

Standard bucket capacity 1.26 cu.m G.P Showel

M	Dump height	2.96 m
N	Load height exceeded	3.39 m
O	Height at pin	3.61 m
P	Reach before pin	0.42 m
Q	Ground reach	1.47 m
R	Full height reach	1.28 m
S	Bucket dump reach	0.89 m
T	Digging depth below ground	0.1 m
U	Ground rollback	50°
V	Dump angle	45°
	Bucket breakout force	8793 kgf
	Loader arm breakout force	5642 kgf
	Payload	2000 kgf
	Lifting capacity at hook point	3600 kgf @ 230 bar

EXCAVATOR PERFORMANCE		STANDARD	EXTENSION (OPTIONAL)
Standard bucket capacity (GP)		0.22 cu.m	
A	Maximum digging depth	4.82 m	5.93 m
B	Ground to rear wheel center distance	6.77 m	7.8 m
C	Ground level to rotation center height	5.47 m	6.5 m
D	Full height reach to rotation center	2.82 m	3.61 m
F	Maximum working height	6.17 m	7.04 m
G	Maximum load over height	4.48 m	5.36 m
J	Bucket rotation – Power	201°	
Bucket breakout force		6320 Kgf	
Boom breakout force		3580 Kgf	
Lifting capacity at pivot (without bucket)		1642 kgf	



STATIC DIMENSIONS

AA	Overall length	6.04 m
BB	Wheelbase	2.22 m
CC	Swing pivot travel	1.03 m
DD	Minimum ground clearance	0.48 m
EE	Ground clearance at orientation	0.65 m
FF	Height to top of hood	1.99 m
GG	Height to top of cab	3.00 m
HH	Overall height	3.71 m
JJ	Rear track width	1.70 m
KK	Front track width	1.93 m
LL	Overall width without bucket	2.35 m
MM	Side reach up to the centerline of the machine	6.08 m

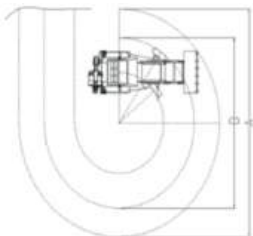
TURNING CIRCLE

Inner wheels braked

A Loader bucket outside	8.8m
C Wheel outside	6.3m

Inner wheels not braked

A Loader bucket outside	11.6m
B Wheel outside	8.9m



PRODUCT SPECIFICATION



ENGINE

PERKINS 1104D - 44TA EU NRMM 97/68/EC
EURO IIIA without emissions (4400 CC)

Gross Power : 74.5 kW (100HP) @ 2200 RPM

Gross Torque : **410 Nm @ 1400 RPM**



HYDRAULIC

Smart Technology hydraulics : **3480 p.si. (240bar)**

Pump O/P : 145 LPM @ 2200 RPM

: 157 LPM @ MAX RPM

Pump type : GEAR PUMP



STEERING

Power steering



TRANSMISSION

CARRARO Synchro - Shuttle Transmission
with integral torque converter

CARRARO SPS - Transmission powershift
with integral torque converter



TYRES

FRONT : 2WD- 9.00X16 - 16PR

4WD- 12.5/80X18 - 12PR

REAR (Standard) : 19.5LX24 - 12PR

Optional : 16.9X28 - 12PR

Heavy Duty : 14X25 - 20PR


DIRECTION

Power steering


WEIGHT
8200 Kgs with Standard **GP** Bucket option

**BACKHOE
BUCKET OPTIONS**

0.10 cu.m, 0.22 cu.m, 0.31 cu.m


TRACTION

4WD Transmission (Four-wheel drive)


ELECTRIC

 12V battery system (**180 Ah**)

SPEED

 Max front : **41 Km/Hr**

 Max rear : **20.3 Km/Hr** (3rd gear recommended)

SERVICE CAPABILITIES

	System	Service
Hydraulic Tank	120 Ltr	100 Ltr
Fuel Tank	150 Ltr	150 Ltr
Engine Coolant	17 Ltr	15 Ltr
Engine Oil	13 Ltr	13 Ltr
Transmission	19.5 Ltr	13 Ltr
Rear Axle	17 Ltr	17 Ltr
Front Axle 4WD	10 Ltr	10 Ltr



EASY TO MAINTAIN AT LOW COST

FRONT OPENING BONNET

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

Bull's front-opening bonnet provides unmatched access-making service and maintenance faster, simpler and smarter.



EASY SERVICEABILITY & MAINTENANCE

>> **SINGLE LAYER RADIATOR/
COOLER:** Easy to clean










>> **ENGINE
HIGH TEMPERATURE
WARNING ALARM**



 **BULLINFOMATIC** (Optional)**TELEMATICS & MACHINE FLEET
MONITORING SYSTEM** 

🔍 Bull Infomatics

Download App for
Easy Service & Spares

-  Fuel monitoring
-  Services SMS
-  Geo Fencing
-  Proactive alert
-  Locate machine
-  Schedule maintenance
-  Service on demand switch

Detailed information monitored through Bull Infomatics App

STABLE WORK PLATFORM



NOW IN **70+** COUNTRIES



Our other range of products



**SKID STEER
AV490**



SMART KID



**CONCRETE
MIXER SKID**



HD100



HD96