



Rock Series →
MODEL
AB 10



EXCAVATOR LOADER



A.B. EXCAVATORS & EARTHMOVERS (P) LTD.

Head Quarters: ABEL Complex, Plot No. - 164, First Floor, Sector - 25, Faridabad - 121004, Haryana (INDIA)
Factory Plant 1: Industrial Plot No. 9, Krishna Colony, Sector-56, Sohna Road, Faridabad - 121004, (INDIA)
Plant 2: 76 KM, Village Khatela, National Highway-2 Palwal, Haryana (INDIA)
Company Showroom: 42 KM, Village Kailgaon, National Highway-2, Ballabhgarh, Faridabad, Haryana (INDIA)
Phone : 0129-3293608, 4155033-36 Fax : 0129-4061570 Email : mktg@abelindia.com
Website : www.abelindia.com

24 HOUR CUSTOMER CARE : 0-9999914795, 0-9810280709

Authorised Dealer



AB 10 SPECIFICATIONS

ENGINE

Low emission engine, with reduced fuel consumption

Model	4R. 1040(KIRLOSKAR)
Type	4 cyl. In line
No. of cylinder	4
Displacement	4160
Aspiration	N. A.
Compression ratio	18:1
Power (Gross SAE)	57 KW / 76 HP
Rated speed	2200 rpm
Max torque	272 NM @ 1400 rpm
Cycle	4 stroke
Combustion system	Direct Injection
Fuel system	In line
FIP	MICO
Type	In line pump

Electric system

Rated voltage	12 V
Battery capacity	88 AH
Alternator rating	65 AMP

Hydraulic system

Flow sharing system : when the control valve is performing two or more function simultaneously, flow sharing automatically maintains the pressure and flow for each function.

System	Close center
Type	Load sensing pump
Pump type	Gear pump
Distributor	"Flow sharing"
Max flow	140 L /min (80 L+60 L)
Working pressure(MRV)	225 bar
System capacity	140 L
Unloader valve pressure	205 bar

Steering

Full power front wheel hydrostatic power steering with manual capability in the event of engine or hydraulic power failure. Hydraulic supply from pump via priority valve. Working pressure 1750 p.s.i.(121 bar)

Type	load sensing hydrostatic
Turns lock to lock	3
Turning radius between walls	5.3m
Turning radius curb-curb	4m

Weight

Machine with standard loader & backhoe bucket (0.25m³) standard dipper without counter weight & operator with full fuel tank.

Operating weight	76 00 kg.
------------------	-----------

AXLES & BRAKES

Out board planetary final drives for easier servicing foot operated differential lock for ease of operation.

16° front axle oscillation to maintain maximum ground contact and action.

Self equalizing and self adjusting high capacity and long life sealed wet disc brake.

Drive Train

Final drive type	external planetaries
Total oscillation angle	16°
Differential locking	1

FRONT AXLE

Load rating, Static	23750N
Load rating, dynamic	9500N

REAR AXLE

Load rating, Static	187500N
Load rating, dynamic	75000N

Transmission

Power-shuttle gear box with four forward and reverse fully synchronized gears, electro-hydraulic forward/reverse switch on the steering column.

AB-10 backhoe loaders comes with 2WD standard and 4WD optional.

SERVICE FILL CAPACITIES

Cooling system	19 L
Engine oil (W/filter)	10 L
Fuel tank	110 L

Rear Axle

Differential oil capacity with hub.	17 L
Hydraulic system	140 L
Transmission	16 L with system 19.5 L
Brake system	1 L

Backhoe Performance

The boom is of a curved design for easier loading.

Bucket width	770mm
Bucket capacity	0.25 m³
Bucket digging force	59.1 KN
Dipper digging force	39.6 KN
Bucket rotation	194°
Swing torque	26 K N-M

Loader performance

Standard loader is a 4 cylinder self leveling type to ensure equal distribution of load.

Bucket width	2350 mm
Bucket capacity	1.3 m³
Lifting capacity at full height	3154 kg
Bucket breakout force	55.4 KN

Features:

Return to dig	Optional
Number of bucket cylinders	2
Boom, Slew & Dipper ram suspension system	Cushning Standard

Tyres

Large front tyres give great loading performance.

Rear	16.9 x 28 12 PR
front	9 x 16 16 PR



Loader Dimensions

A - Pin height	3.45m
B - Dump angle	45°
C - Dump Reach @ 45°	0.77m
D - Dump Height	2.75m
E - Roll back at Ground	43°
F - Dig depth below grade	0.148m
G - Load over height	3.23m

Backhoe Dimensions

H - SAE max digging depth	5.00m
I - Loading clearance	4.26m
J - Reach at max height	2.88m
K - Max operating height	6.06m
L - Reach from swing post	5.79m
M - Reach ground level to rear wheel centre	7.15m



Dimensions - Transport Position

A - Overall length	5.83m
B - Overall width	2.45m
C - Overall height	3.93m
D - Wheelbase 2wd	2.17m
E - Minimum ground clearance	0.66m
F - Hight to top of cab	2.9m
G - Track width rear	1.76m
H - Track width front	1.86m



Gross power

SAE : AB-10 : 57Kw / 76HP

Operating weight

8594 kg. 7400 UWL

Bucket capacity

Loader : 1200L

Bucket : 250L

SAE Max digging depth

4280 - 5343 mm

