

STATIC DIMENSIONS

A	Track length on ground	2200 mm
B	Undercarriage overall length	2830 mm
H	Track gauge	1700 mm
I	Width over tracks (450 mm shoes)	2150 mm
K	Transport with Monoboom and 2.4 m dipper*	5900 mm
L	Transport height with Monoboom and 2.4 m dipper*	2690 mm
C	Counterweight clearance	767 mm
D	Tail swing radius	1580 mm
E	Width of superstructure*	2220 mm

*With cab hand rail removed

*All dimensions, weights and timings are variable within 1.5% JCB reserves the right to change specifications without prior notice.

F	Height over cab	2625 mm
N	Doze blade width (back fill)	2320 mm
G	Ground Clearance	363 mm
M	Track height	665 mm
	Dozer blade (Standard)	
	Max height (Above ground)	375 mm
	Dig depth (Below ground)	235 mm
	Approach angle	26°
	Width	2320 mm
	Height	460 mm
	Reach in front of tracks	480 mm

WORKING RANGE

	3.7 m Monoboomb	
Boom		
Dipper	1.74 m (Standard)	2.18 m (Option)
A	Maximum digging reach	6360 mm
B	Maximum digging reach (on ground)	6220 mm
C	Maximum digging depth	4138 mm
D	Maximum digging height	7237 mm
E	Maximum dumping height	5157 mm
F	Maximum vertical wall cut depth	3483 mm
G	Minimum swing radius	1750 mm
	Dipper tearout	4000 kgf
	Bucket tearout - all machines	5700 kgf
	Bucket rotation (Deg)	184°
		184°

Short boom & dipper options :-

Max dig depth : 2920 mm

Max dig reach (on ground) : 5300 mm

ATTACHMENTS

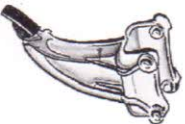
Rock Breaker:

Operating weight : 520 kg
 Length-without tool : 1300 mm
 Working-length-Std tool : 365 mm
 Steel diameter : 70 mm



Ripper Tooth

The powerful ripper tooth is designed for breaking up hard surfaces such as tarmac and concrete. It comes along with a replaceable tip.



Ditch Cleaning Bucket

Specially profiled for ditch cleaning or grading. Drainage holes on the bottom and sides allow easy drainage of water while retaining the weeds and muck.

Specification:

Width : 1525 mm
 Capacity : 0.22 cu m

ENGINE

Model	: Kirloskar 4R 1040
Type	: Water-cooled, 4-stroke, 4-cylinder
Gross power	: 76HP at 2200 RPM (SAE J1995)
Battery	: 100 AH
Starting system	: 12 Volt
Alternator	: 85A
Aspiration	: Natural

CAB

1. Steel cab with high strength section frame. Vibration isolated by four hydraulically damped mountings.
2. Front windscreen opening type, sliding LH and RH rear windows. Transparent roof on front for excellent visibility on top.
3. Fully adjustable deluxe suspension seat with head rest, arm rests and back rest recline.
4. Excellent all round visibility.

CONTROLS

Excavator : All servo lever operated, to ISO control pattern.

Tracks : Individually servo operated by foot pedal or hand lever. Speed selection via hand operated switch.

Auxiliary : Via foot operated servo pedal.

Controls Isolation : Gate lock lever at cab entrance, and a console mounted switch.

Engine Speed : Hand operated control lever.

Engine Stop : Hand operated stop cable.

Instrumentation : Instrumentation panel contains dial pointer type gauges for fuel level, engine water temperature readings & hour meter. Whistle audible & visual warnings indicate low engine oil pressure, low engine coolant level, engine overheat, no battery charge, hydraulic oil overheat, indication lights are incorporated in panel to indicate swing lock operation, servo control isolation, high travel speed and E & P modes of operation.

EXCAVATOR END

Choice of either dipper lengths, to suit the requirements of reach, dig depth, load-over height rear-outs and site versatility.

EXCAVATOR BUCKET

All buckets are JCB type fully welded steel, with hardened steel pivot pins and replaceable wear parts.

Bucket size	Capacity	Weight
Max. width toe plate (SAE HEAPED)		
350 mm	0.09 cum.m.	170 kg
455 mm	0.16 cum.m.	145 kg
800 mm	0.24 cum.m.	178 kg
950 mm	0.30 cum.m.	193 kg
965 mm	0.32 cum.m.	215 kg

(Welded Adaptors)

HYDRAULIC SYSTEM

Power Modes
The equipment has two power modes

Economy (E) :
For optimum output and fuel economy

Productivity (P) :
For high output.

Pumps

Main pumps : Variable displacement axial piston type

Maximum flow : 2 x 80 lpm (main)

Servo pump : Gear type maximum flow

Dozer : Gear type, maximum flow 21.5 lpm

Control Valve:

A combined four and five spool control valve with auxiliary service spool as standard. When required, twin pump flow is combined to boom, dipper and bucket services for greater speed and efficiency.

Relief Valve Setting

Boom / Arm / Bucket: 284 bar

Swing Circuit: 190 bar

Travel Circuit: 284 bar

Boost to: 300 bar

Hydraulic Cylinders

Double acting type, with screwed end caps and hardened steel bearing bushes. End cushioning is fitted as standard on boom and dipper arms.

Filtration : The hydraulic components are protected by the highest standard of filtration to ensure long hydraulic fluid life upto 5000hrs (subject to SCS) and component life. In tank : 105 micron, suction strainer

Main return line : 10 micron, fibre form element
Plexus filtration system : 1.5 micron, paper element
Pilot line : 10 micron, paper element

Hydraulic hammer (optional) return : 10 micron reinforced micro form element
Cooling : Cooling via a full return line air blast cooler to meet the tough Indian working condition.

SWING SYSTEM

Swing motor : Axial piston type.

Swing brake : Hydraulic braking plus automatic spring applied disc type parking brake.

Final drive : Planetary reduction.

Swing gear : Large diameter, internally toothed, fully sealed grease bath lubricated.

Swing lock : Multi position hydraulic.

UNDERCARRIAGE

Construction : Fully welded "X" frame type with sloping side members with dirt relief holes under top rollers.

Upper & lower rollers : Heat treated, sealed and lubricated.

Track Type : Sealed and greased

Track adjustment : Grease cylinder type.

Track idler : Sealed and lubricated, with spring enhanced recoil.

Track Shoe : 450mm Tripler Grouser - (Standard)

Rollers and Shoes

(each side)

Upper rollers : 1

Lower rollers : 5

Track shoes : 39

WEIGHT AND GROUND BEARING PRESSURE

Machine equipped with 3.7m Boom & 1.74m Dipper Arm and Excavating Bucket. Operator, full fuel tank and lubes.

Standard Boom Track Shoes	Operating Weight	Bearing Pressure
450mm	8100 kg	0.35 kg/sq.cm
600mm (optional)	8300 kg	0.27 kg/sq.cm
Standard Boom Track Shoes Without Dozer	Operating Weight	Bearing Pressure
450mm	7675 kg	0.34 kg/sq.cm
600mm (Optional)	7875 kg	0.27 kg/sq.cm

STANDARD / OPTIONAL EQUIPMENT

Double element air cleaner	STD
Heavy duty alternator	STD
Heavy duty batteries	STD
Interior light	STD
Removable floor mat	STD
1.74m dipper arm	STD
Plexus hydraulic oil filtration	STD
HSP pressure test points	STD
Auxiliary pipe work mounting brackets	STD
Work light on boom (I) & Tool box	STD
Suspension seat	STD
Dozer blade	STD
Upper structure under covers	STD
Tool kit	STD
450mm triple grouser	STD
600mm triple grouser	OPT
Undercarriage belly guarding	OPT
Ripper tooth	OPT
General purpose buckets	OPT
Ditch cleaning bucket	OPT
Hydraulic hammer	OPT
Hammer pipework	OPT
Without Dozer (Backfill) blade	OPT
Short boom (2.8m) & short arm (1.2m)	OPT
Cold Start Kit	OPT
First aid Kit	OPT
Fire extinguisher	OPT
Reflectors	OPT
Refuel pump	OPT

TRACK DRIVE

Japanese Hydraulic Components

Type : Fully hydrostatic 2 speed

Travel motors : Axial piston type, fully guarded within undercarriage frame.

Final Drive : Planetary reduction, bolt-on sprockets

Service brake : Hydraulic counter-balance valve to prevent over-speeding on gradients.

Park brake : Disc type, spring applied, automatic hydraulically released.

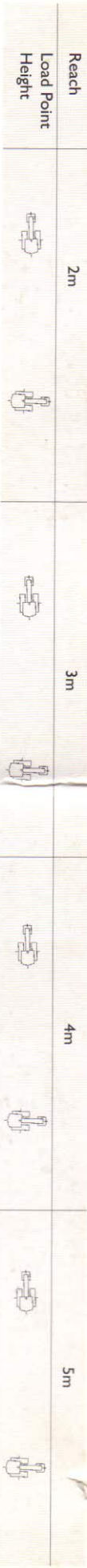
Gradeability : 70% (35 deg.) continuous

Travel Speeds : High - 5.0 km/hr.
Low - 3.5 km/hr.

Tractive effort : 55 kN (5600 kgf)

SERVICE CAPACITIES

Fuel tank	164 lt
Engine coolant	23 lt
Engine oil	14 lt
Track reduction gear (each side)	1.7 lt
Hydraulic system	92 lt
Hydraulic tank	55 lt



Load Point Height		Mono Boom, 1.74m Arm, 450mm triple grouser, bucket weight									
5m		1365*	1365*	1418*	1418*	1418*	1418*	1418*	1418*	1418*	1418*
4m		1446*	1446*	1486*	1486*	1546*	1546*	1546*	1546*	1546*	1546*
3m	2366*	2366*	1786*	1786*	1761*	1761*	1761*	1761*	1761*	1761*	1761*
2m		2270*	2270*	2251*	2251*	2180*	2180*	2180*	2180*	2180*	2180*
1m		2686*	2686*	2251*	2251*	2180*	2180*	2180*	2180*	2180*	2180*
0		2877*	2877*	2180*	2180*	1854*	1854*	1423*	1423*	1323*	1026
-1m	4104*	4104*	2338*	2338*	1834*	1834*	1404*	1404*			
-2m	3600*	3600*	2553*	2553*	1816*	1816*	1419*	1419*			
-3m			1742*	1742*							

Load Point Height		Mono Boom, 1.74m Arm, 600mm triple grouser									
5m		1339*	1339*	1316*	1316*	1316*	1316*	1316*	1316*	1316*	1316*
4m		1447*	1447*	1398*	1398*	1398*	1398*	1398*	1398*	1398*	1398*
3m	1803*	1803*	1803*	1803*	1539*	1539*	1539*	1539*	1539*	1539*	1539*
2m	2294*	2294*	2294*	2294*	1760*	1760*	1567*	1567*	1412*	1412*	1180
1m	2701*	2701*	2701*	2701*	2306*	2306*	1947*	1947*	1507*	1507*	1079
0	2876*	2876*	2876*	2876*	2239*	2239*	1901*	1901*	1359*	1359*	1058
-1m	4062*	4062*	2831*	2831*	1881*	1881*	1445*	1445*			
-2m	3582*	3582*	2559*	2559*	1852*	1852*	1457*	1457*			
-3m	2673*	2673*	1848*	1848*							

Load Point Height		Mono Boom, 2.18m Arm, 450mm triple grouser									
5m		1170*	1170*	1217*	1217*	1217*	1217*	1217*	1217*	1217*	1217*
4m		1506*	1506*	1326*	1326*	1362*	1362*	1362*	1362*	1362*	1362*
3m	2006*	2006*	2006*	2006*	1599*	1599*	1531*	1531*	1372*	1372*	1102*
2m	2491*	2491*	2267*	2267*	1845*	1845*	1463*	1463*	1336*	1336*	1037
1m	2784*	2784*	2784*	2784*	2173*	2173*	1409*	1409*	1305*	1305*	1008
0	3945*	3945*	2849*	2849*	1808*	1808*	1379*	1379*	1290*	1290*	993
-1m	3904*	3904*	2684*	2684*	1805*	1805*	1376*	1376*			
-2m	3151*	3151*	2166*	2166*							
-3m			2184*	2184*							

Load Point Height		Mono Boom, 2.18m Arm, 600mm triple grouser									
5m		1170*	1170*	1211*	1211*	1211*	1211*	1211*	1211*	1211*	1211*
4m		1506*	1506*	1362*	1362*	1362*	1362*	1362*	1362*	1362*	1362*
3m	2006*	2006*	2006*	2006*	1575*	1575*	1402*	1402*	1402*	1402*	1136
2m	2491*	2491*	2332*	2332*	1845*	1845*	1507*	1507*	1373*	1373*	1070
1m	2784*	2784*	2784*	2784*	2238*	2238*	1891*	1891*	1453*	1453*	1041
0	3945*	3945*	2849*	2849*	1859*	1859*	1423*	1423*	1328*	1328*	1027
-1m	3904*	3904*	2684*	2684*	1856*	1856*	1420*	1420*			
-2m	3151*	3151*	2184*	2184*							
-3m			2184*	2184*							

Notes:

- Lifting capacities are based on ISO 10567, that is: 75% of minimum tipping load or 87% of hydraulic lift capacity, whichever is less. Lifting capacities marked* are based on hydraulic capacity.
- Lift capacities assume that the machine is on firm, level ground and equipped with an approved lifting point and bucket with dozer blade up.
- Lift capacities may be limited by local regulations.

