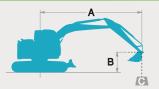
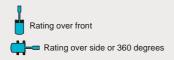
Lifting Capacities

ED160 Blade Runner





- A Reach from swing centerline for bucket hook
- B Bucket hook height above/below ground
- C Lifting capacities in kilograms

ED160 Blade	Runner	Arm: 2.38m Bucket: 0.50m³ ISO heaped 380kg Shoe: 500mm Blade; Front side and Blade up										
	А	1.5	im	3.0)m	4.5	im	6.0)m	At Max.	Reach	
В			—									Radius
7.5m	kg									*1,520	*1,520	4.17m
6.0m	kg					*2,980	*2,980			*1,260	*1,260	5.77m
4.5m	kg					*3,320	3,290	2,270	1,960	*1,210	*1,210	6.65m
3.0m	kg			*6,030	5,920	3,610	3,040	2,170	1,870	*1,250	*1,250	7.11m
1.5m	kg			6,660	5,120	3,310	2,760	2,040	1,750	*1,380	1,260	7.23m
G.L.	kg			6,310	4,830	3,100	2,580	1,950	1,660	1,500	1,290	7.02m
-1.5m	kg	*5,570	*5,570	6,300	4,820	3,030	2,520	1,910	1,630	1,710	1,470	6.45m
-3.0m	kg	*8,490	*8,490	*6,350	4,950	3,090	2,570			2,320	1,970	5.40m

ED160 Blade	Blade Runner Arm: 2.84m Bucket: 0.38m³ ISO heaped 340kg Shoe: 500mm Blade; Front side and Blade up													
	А	1.5	īm	3.0)m	4.5	m	6.0)m	7.5	īm	At Max.	Reach	
В		1	—	1		1		ŀ				1		Radius
7.5m	kg					*2,060	*2,060					*1,400	*1,400	4.92m
6.0m	kg					*2,510	*2,510	*1,830	*1,830			*1,180	*1,180	6.33m
4.5m	kg					*2,860	*2,860	2,240	1,940			*1,120	*1,120	7.14m
3.0m	kg			*5,080	*5,080	3,600	3,030	2,120	1,830	1,350	1,170	*1,140	*1,140	7.57m
1.5m	kg			6,700	5,170	3,250	2,720	1,970	1,690	1,290	1,110	1,240	1,060	7.68m
G.L.	kg			6,170	4,730	3,000	2,490	1,850	1,570			1,250	1,070	7.48m
-1.5m	kg	*4,730	*4,730	6,060	4,640	2,890	2,390	1,790	1,520			1,410	1,200	6.95m
-3.0m	kg	*7,300	*7,300	6,160	4,730	2,910	2,410	1,830	1,550			1,830	1,560	6.00m
-4.5m	kg			*4,280	*4,280							*2,730	*2,730	4.33m

STANDARD EQUIPMENT

- · ROPS cab
- · 4.68m STD boom
- · 2.38m HD STD arm
- 0.5m3 backet
- N&B piping
- Boom & arm safty valve
- · Rear view camera
- Suspension seat • 500mm bent shoe
- · Geoscan IT system

OPTIONAL EQUIPMENT

- · 2.84m long arm
- · 600mm bent shoe
- · Multi control lever
- Top guard
- · Air suspension seat

- Do not attempt to lift or hold any load that is greater than these lift capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lift capacities.
 The above lifting capacities are in compliance with SAE J/ISO 10567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load. Lifting capacities marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
- 2. Lift capacities are based on machine standing on level, firm, and uniform ground. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, experience of personnel, etc.
- 3. Bucket lift hook is defined as lift point.

- 5. Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine. Rules for safe operation of equipment should be adhered to at all times.
- Lift capacities apply to only machines as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.

Note: This catalog may contain attachments and optional equipment that are not available in your area. And it may contain photographs of machines with specifications that differ from those of machines sold in your areas. Please consult your nearest KOBELCO distributor for those items you require. Due to our policy of continuous product improvements all designs and specifications are subject to change without advance notice. Copyright by KOBELCO CONSTRUCTION MACHINERY CO., LTD. No part of this catalog may be reproduced in any manner without notice.

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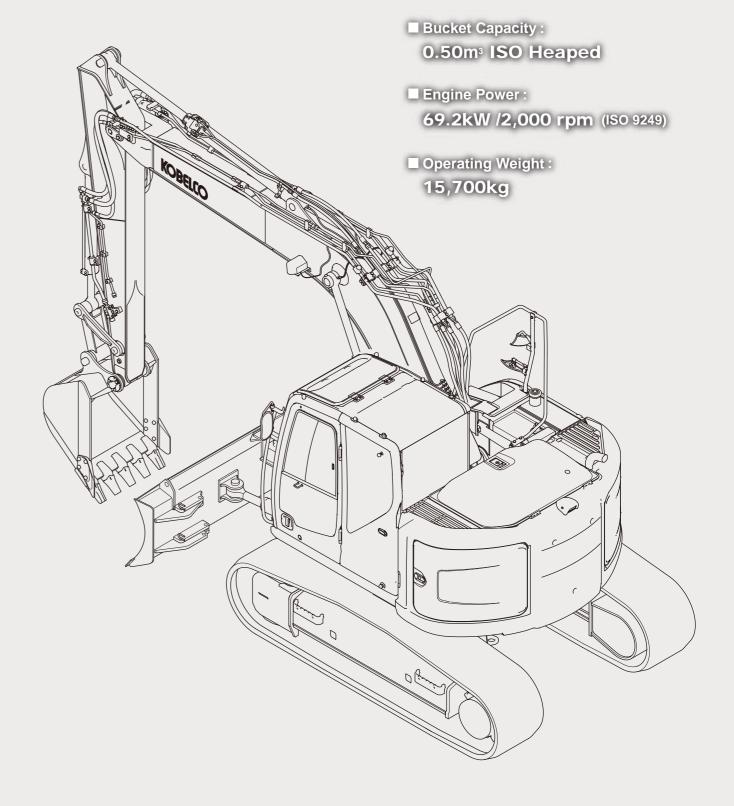
Bulletin No. ED160BR-AUS-101-1503ONEE



ED160 Blade Runner

Hydraulic Excavators

ED160 Blade Runner





Engine

Model	MITSUBISHI D04EG-TAA
Туре:	Direct injection, water-cooled, 4-cycle diesel engine With turbocharger, intercooler
No. of cylinders:	4
Bore and stroke:	94 mm x 120 mm
Displacement:	3.331 L
Rated power output:	69.2kW /2,000 min-1 (ISO9249)
Max. torque:	359N·m /1,600 min-1 (ISO9249)



Hydraulic System

Pump	
Туре:	Two variable displacement pumps + 2 gear pump
Max. discharge flow:	2 x 130L/min, 1 x 20L/min, 1 x 55L/min
Relief valve setting	
Boom, arm and bucket:	37.8MPa
Dozer blade, angle and tilt:	27.4MPa
Travel circuit:	34.3MPa
Swing circuit:	28.0MPa
Control circuit:	5.0MPa
Pilot control pump:	Gear type
Main control valves:	8-spool
Oil cooler:	Air cooled type



Swing System

Swing motor:	Axial piston motor
Parking brake:	Oil disc brake, hydraulic operated automatically
Swing speed:	11.0 min-1 {rpm}
Swing torque:	39.9 kN·m (SAE)
Tail swing radius:	1,490 mm
Min. front swing radius:	2.000mm



Travel System

Travel motors:	2 x axial piston, two-speed motors
Parking brakes:	Oil disc brake per motor
Travel shoes:	40 each side
Travel speed:	4.8 / 2.4 km/h
Drawbar pulling force:	196 kN (SAE J 1309)
Gradeability:	70 % {35°}



Cab & Control

All-weather, sound-suppressed steel cab mounted on the silicon-sealed viscous mounts and equipped with a heavy, insulated floor mat.

Two hand levers and two foot pedals for travel Two hand levers for excavating and swing Electric rotary-type engine throttle



Boom, Arm & Bucket

Boom cylinder:	100 mm x 1,092 mm
Arm cylinder:	115 mm x 1,120 mm
Bucket cylinder:	95 mm x 903 mm



Dozer Blade, Angle & Tilt

Dozer cy	linder:	114mm x 210mm		
Angle cy	linder:	102mm x 552mm		
Tilt cylin	der:	102mm x 127mm		
Dimensio	on:	3,260mm (width) x 815mm (height)		
VA/1-1	Digging depth x Lift height	790mm x 600mm		
Working	Maximum tilt height	445mm		
range:	Maximum angle	25°		



Refilling Capacities & Lubrications

Fuel tank:	200 L
Cooling system:	13 L
Engine oil:	11.5 L
Travel reduction gear:	2 x 5.3 L
Swing reduction gear:	1.65 L
Hydraulic oil tank:	85.2 L tank oil level 126.7 L hydraulic system



Attachments

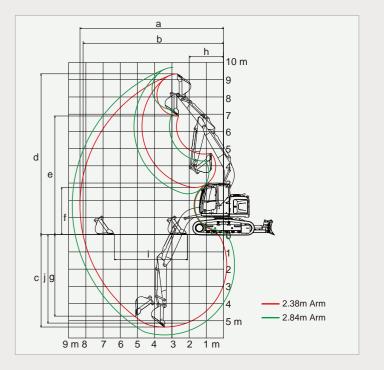
Backhoe bucket	and arm combination				
Use			Backhoe bucket		
			Normal digging		
5 1	ISO heaped	m³	0.50		
Bucket capacity	Struck	m³	0.38		
Opening width	With side cutter	mm	1,000		
Opening width	Without side cutter	mm	900		
No. of bucket teeth			5		
Bucket weight		kg	380		
Combinations	2.38 m arm		0		
	2.84 m arm		_		

O Standard

Working Ranges

		Unit: m
Boom	4.68	8m
Range	2.38m	2.84m
a- Max. digging reach	8.34	8.78
b- Max. digging reach at ground level	8.16	8.61
c- Max. digging depth	5.36	5.82
d- Max. digging height	9.34	9.71
e- Max. dumping clearance	6.90	7.26
f - Min. dumping clearance	2.74	2.38
g- Max. vertical wall digging depth	4.73	5.29
h- Min. swing radius	2.00	2.40
i - Horizontal digging stroke at ground level	4.23	4.72
j - Digging depth for 8 feet flat bottom	5.13	5.63
Bucket capacity ISO heaped m³	0.50	0.38

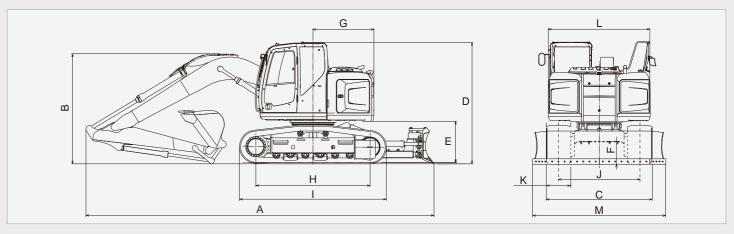
Digging Force			Unit: kN
Arm length		2.38m	2.84m
Bucket digging force	ISO	90.1	89.3
Arm crowding force	ISO	64.4	58.1



Dimensions

A	Arm length	2.38m	2.84m
Α	Overall length	8,530	8,620
В	Overall height (to top of boom)	2,700	3,130
С	Overall width of crawler	2,490	
D	Overall height (to top of cab)	2,980	
Ε	Ground clearance of rear end*	1,010	
F	Ground clearance*	45	55

		Unit: mm
G	Tail swing radius	1,490
н	Tumbler distance	2,800
1	Overall length of crawler	3,600
J	Track gauge	1,990
K	Shoe width	500
L	Overall width of upperstructure	2,490
M	Overall Width	3,260
* Without including height of shoe lug		



Operating Weight & Ground Pressure In standard trim, with standard boom, 2.38m arm, 0.50m³ ISO heaped by

in standard trini, with standard boom, 2.30m arm, 0.30m 130 heaped bucket				
Shaped		Triple grouser shoes (even height)		
Shoe width	mm	500		
Overall width of crawler	mm	2,490		
Ground pressure	kPa	50		
Operating weight	kg	15.700		