

KOBELCO®

Your competitive edge.

ED 150

WT 35,720 lb

HP 94 SAE NET

BKT CAP 0.44 ~ 0.88 cu yd

BLADE CAP 2.86 cu yd

two machines
have become
one

digging

setting pipe

backfilling

heavy dozing

lifting

carrying

grading

slo

loading

site clearing

BLADE RUNNER

ED150



KOBELCO ED150

INNOVATIVE DESIGN

[Long known for its innovation in design, Kobelco introduces the new ED150 Blade Runner™.]

The Only One of Its Kind

The ED150 *Blade Runner*™ combines the features and benefits of **both** an excavator and a dozer in one revolutionary design. **No other machine can stand alone with such a dual purpose.** It is an **excavator** that will dig and lift more than a 14-ton class machine, and features a wide variety of attachments including thumbs, quick couplers and breakers. It is a **dozer** that has comparable productivity of a mid-size dozer.

Legendary Power Source

The heart of any machine is its power source, and the ED150 *Blade Runner* is powered by the proven reliability of Isuzu, with an impressive 94 net horsepower and 264 cubic inch displacement. This turbocharged power plant features direct fuel injection which translates into excellent power and fuel economy.

An Undercarriage Built To Last

Kobelco knows that the ED150's undercarriage endures the harshest of site conditions, and has designed its heavy duty undercarriage to withstand tough dozing and excavator applications. The track rollers, idlers and sprockets are lifetime lubricated. Long pitch tracks are strut reinforced and have a master track link disassembly mechanism. An independent dozer circuit pump allows the blade to be manipulated while traveling, without impacting travel performance.

A Cab Designed for Comfort and Performance

Kobelco has achieved an ideal balance between comfort and logistics in the ED150 *Blade Runner*'s ergonomic cab design. Controls are sensibly located for ease of use. There's a fully adjustable suspension seat and control console. Air conditioning is standard. Effective lighting, both inside the cab and on the machine's exterior, affords excellent visibility in low light situations. Operators enjoy significantly better blade visibility due to the excavator-based design.

Easily transported

Dozer wings fold back to reduce blade width from 10' 8" to 8' 1". With a track width of 8' 6" and a weight of 35,720 lbs, drive the ED150 onto a tag-a-long trailer and you're off to the job site.

Designed to work in tight places

Incorporating Kobelco's Short Radius technology, the ED150 offers performance and convenience in a compact, highly maneuverable excavator. With a counterweight that only extends 5.1 inches beyond the width of the tracks, it can work in extremely tight quarters and yet it can lift 10,920 lbs at ground level, over the front end and 5,860 lbs over the side, at a 15' radius.



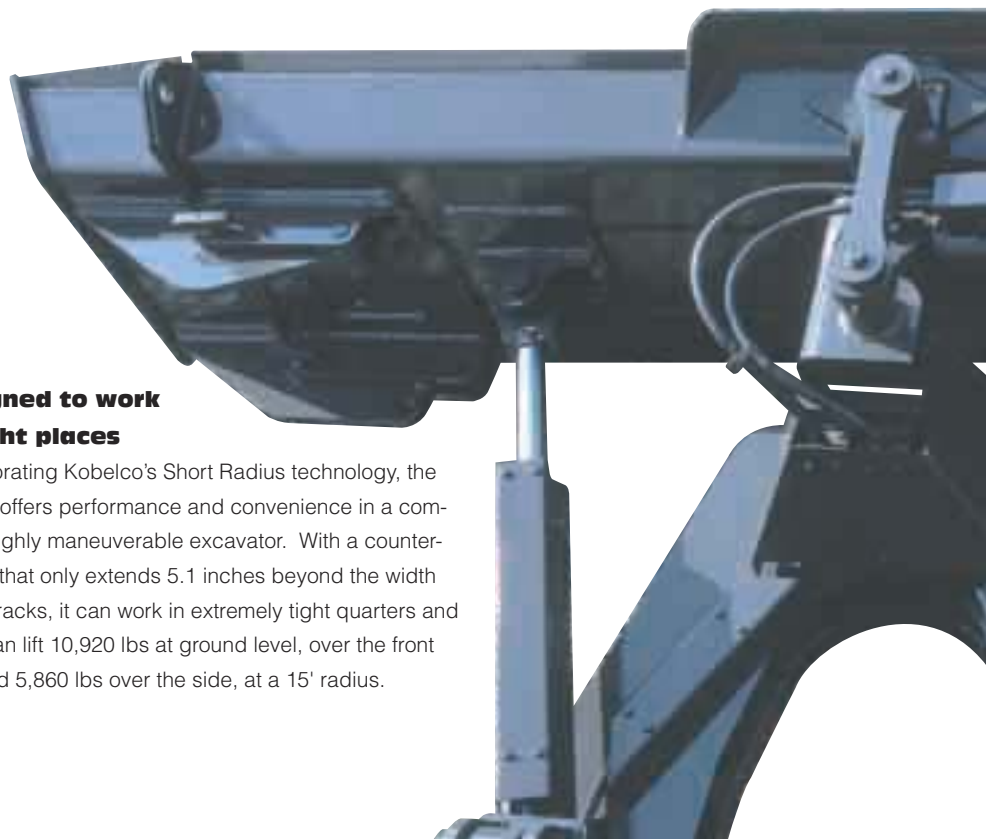
The modified X-shape carbody resists distortion that results from heavy dozing, severe travel conditions and heavy lifting applications.



The ED150's heavy-duty idlers, lower rollers and carrier rollers are all lifetime lubricated for dependability and a long trouble-free working life.



The ED150 comes standard with a Power Angle Tilt (P.A.T.) blade with a 2.86 cu yd capacity.



UNMATCHED VERSATILITY

The ED150 *Blade Runner* is a serious, high-production excavator and dozer that is redefining construction equipment versatility. In today's fiercely competitive construction market, the ED150 *Blade Runner* provides a true competitive edge to contractors by combining two high-performance machines into one — maximizing equipment utilization while minimizing capital investment. It can dig trenches, lay pipe, backfill, tackle heavy dozing, lift material, carry objects, grade, slope-cut, load trucks, clear sites, and perform finishing work.

The ED150 *Blade Runner* **really does** streamline overhead and enhances the operator's performance and capabilities. For example, an operator using the dozer function to move material around or off an embankment can use the excavator attachment to pull material down off the embankment, then continue to use the dozer blade. One machine, the ED150 *Blade Runner*, can do this alone — while the same tasks traditionally require two machines and two operators to complete.

One machine can do the work of two — at a lower cost. It's that simple!

It takes a true competitive edge to be profitable in today's construction market. A good idea is not enough in itself — it takes the **right kind** of company to bring it to life. Kobelco's new ED150 *Blade Runner* typifies the company's commitment to innovation, imagination, practicality and value to the customer. Your nearest Kobelco dealer has all the information you'll need to learn firsthand about the ED150 *Blade Runner*, and what makes Kobelco "Your Competitive Edge."

[The ED150 Blade Runner's blade has a bolt-on reversible cutting edge.]

[The ED150 Blade Runner is a serious, high-production excavator and dozer that redefines construction equipment versatility.]

[The ED150 Blade Runner has collapsible and removable dozer blade wings that maintain the crucial 8' 6" shipping width.]



A conveniently located single dozer lever controls all blade hydraulic functions (including float).



Grease fittings are conveniently located for easy maintenance.



Larger sized travel motors and heavy duty undercarriage enhance durability.

KOBELCO ED150

SWING SYSTEM

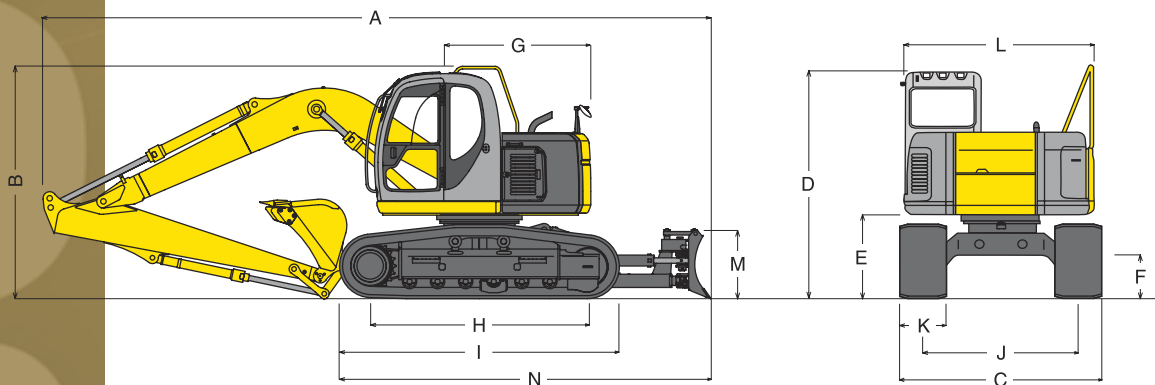
- Brake:
Hydraulic, locks automatically when swing control lever is in neutral position
- Parking brake:
Hydraulic disc brake
- Max. swing speed: 11.7 rpm
- Tail swing radius: 4' 5" (1.43 m)
- Min. front swing radius: 8' 8" (2.65 m)
- Swing torque: 27,762 lbf·ft (37.6 kN·m)

TRAVEL SYSTEM

- Travel speeds:
low 1.9 mph (3.0 km/h)
high 3.1 mph (5.0 km/h)
- Drawbar pull:
32,600 lbs (145 kN)
- Automatic shift: 2-speed travel
- Ground bearing pressure:
6.2 psi (43 kPa)

REFILLING CAPACITIES

- Fuel tank: 44.4 US gals (168 liters)
- Cooling system: 4.8 US gals (18 liters)
- Engine oil: 3.4 US gals (13 liters)
- Hydraulic oil:
Hydraulic oil reservoir, 24.8 US gals (94 liters)
System, 37 US gals (140 liters)



DIMENSIONS

Unit: ft-in (m)

ARM LENGTH	9'8"	(2.95)
A Overall length	28' 1"	(8.55)
B Overall height (to top of boom)	9' 9"	(2.98)
C Overall track width	8' 6"	(2.59)
D Overall height (to top of handrail)	9' 6"	(2.90)
E Ground clearance of rear end*	3' 6"	(1.07)
F Ground clearance*	20.7"	(525 mm)
G Tail swing radius	4' 8"	(1.43)
H Center distance of tumblers	9' 2"	(2.80)
I Overall length of crawler	11' 9"	(3.59)
J Track gauge	6' 6"	(1.99)
K Shoe width	23.6"	(600 mm)
L Overall width of upper structure	7' 11"	(2.41)
M Height of blade	31.5"	(800 mm)
N Length of lower w/blade	15' 7"	(4.76)

* Excludes height of grouser bar.

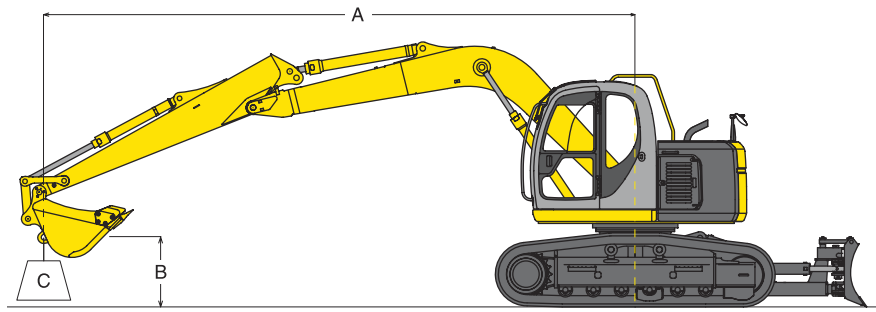
HYDRAULICS

- Two axial piston, variable displacement pumps supply oil for the travel, boom, arm, bucket and swing functions. There are two fixed displacement gear-type pumps. One provides an independent supply of oil for the dozer function and the other supplies the control circuit.
- Pump maximum discharge flow: 2 x 31.4 + 14.3 + 5.5 gpm (2 x 118.9 + 56.2 + 20.8 liters/min)

OPERATING PRESSURE

- Implement: 4,980 psi (34.3 mPa)
- Travel: 4,980 psi (34.3 mPa)
- Swing: 4,050 psi (27.9 mPa)
- Dozer: 3,555 psi (24.5 mPa)
- Control circuit 710 psi (4.90 mPa)





- A** Reach swing centerline to bucket hook
- B** Bucket hook height above/below ground
- C** Lifting capacities in pounds and kilograms
 - Max discharge pressure: 5,470 psi (37.8 mPa)
 - Track shoe: 23.6" (600 mm) triple grouser
 - Blade down in rear

LIFTING CAPACITIES

Blade down in rear

ED150		Arm 9'8"		Bucket 0.50 cu yd (0.38 m³) SAE heaped - 705 lb (320 kg)					
A	5' (1.5 m)		10' (3.0 m)		15' (4.6 m)		20' (6.1 m)		
B	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	Over Front	Over Side/360°	C
25' (7.6 m)							*3,440	*3,440	lb
							*1,560	*1,560	kg
20' (6.1 m)							*5,880	4,680	lb
							*2,670	2,120	kg
15' (4.6 m)					*7,600	7,270	*6,550	4,460	lb
					*3,440	3,290	*2,970	2,020	kg
10' (3.0 m)			*15,500	12,450	*9,700	6,620	*7,470	4,180	lb
			*7,030	5,640	*4,400	3,000	*3,380	1,890	kg
5' (1.5 m)	*5,840	*5,840	*18,400	11,360	11,190	6,110	7,210	3,930	lb
	*2,650	*2,650	*8,340	5,150	5,070	2,770	3,270	1,780	kg
Ground Level	*10,780	*10,780	*18,310	11,070	10,920	5,860	7,070	3,800	lb
	*4,890	*4,890	*8,300	5,020	4,950	2,660	3,200	1,720	kg
-5' (-1.5 m)	*16,730	*16,730	*16,030	11,200	*10,530	5,870			lb
	*7,590	*7,590	*7,270	5,070	*4,770	2,660			kg
-10' (-3.0 m)			*10,590	*10,590					lb
			*4,800	*4,800					kg
-15' (-4.6 m)									lb
									kg

Notes:

- Do not attempt to lift or hold any load that exceeds these rated values at their specified load radii and heights.
- Lifting capacities assume a machine standing on a level, firm, and uniform supporting surface. Operator must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, inexperienced personnel, weight of various other buckets, lifting slings, attachments, etc.
- The previous rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Standard J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Rated loads marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
- Operator should be fully acquainted with the operator's manual before operating this machine. Rules for safe operation of equipment should be followed at all times.
- Capacities apply only to the machine as originally manufactured and normally equipped by KOBELCO Construction Machinery America LLC.



DIGGING FORCE

Unit: lb (kg)

Arm	9' 8" (2.95 m) Arm	
	SAE	ISO
Bucket digging force	*19,000 (*8,625)	*21,375 (*9,695)
Arm crowding force	*12,570 (*5,700)	*13,075 (*5,930)

*Power boost engaged.

KOBELCO[®]

ED150



Turbocharged Isuzu A-4BG1T provides excellent power and fuel economy.

ENGINE

- Model: Isuzu A-4BG1T direct injection, four cylinder, turbocharged diesel
- Displacement: 264 cu in (4,329 liter)
- Rated power: 94 HP (70.1 KW) @ 2,200 rpm
- Max torque: 234.5 lbf•ft (318 N•m) @ 1,600 rpm

BUCKET SELECTION CHART

Bucket Duty	Capacity (SAE) Cubic Yard (m ³)	Width Inches (m)	Weight lb (kg)	Arm 9' 8" (2.95 m)
General Purpose	0.30 (.229)	18" (.457)	650 (295)	H
	0.44 (.336)	24" (.609)	720 (327)	H
	0.58 (.443)	30" (.762)	835 (379)	M
	0.73 (.558)	36" (.914)	905 (411)	L
	.088 (.672)	42" (1.066)	1,015 (460)	L
Heavy Duty	0.30 (.229)	18" (.457)	705 (320)	H
	0.44 (.336)	24" (.609)	780 (354)	H
	0.58 (.443)	30" (.762)	900 (408)	M
	0.73 (.558)	36" (.914)	975 (442)	L
	.088 (.672)	42" (1.066)	1,090 (494)	X

WORKING RANGES

Unit: ft-in (m)

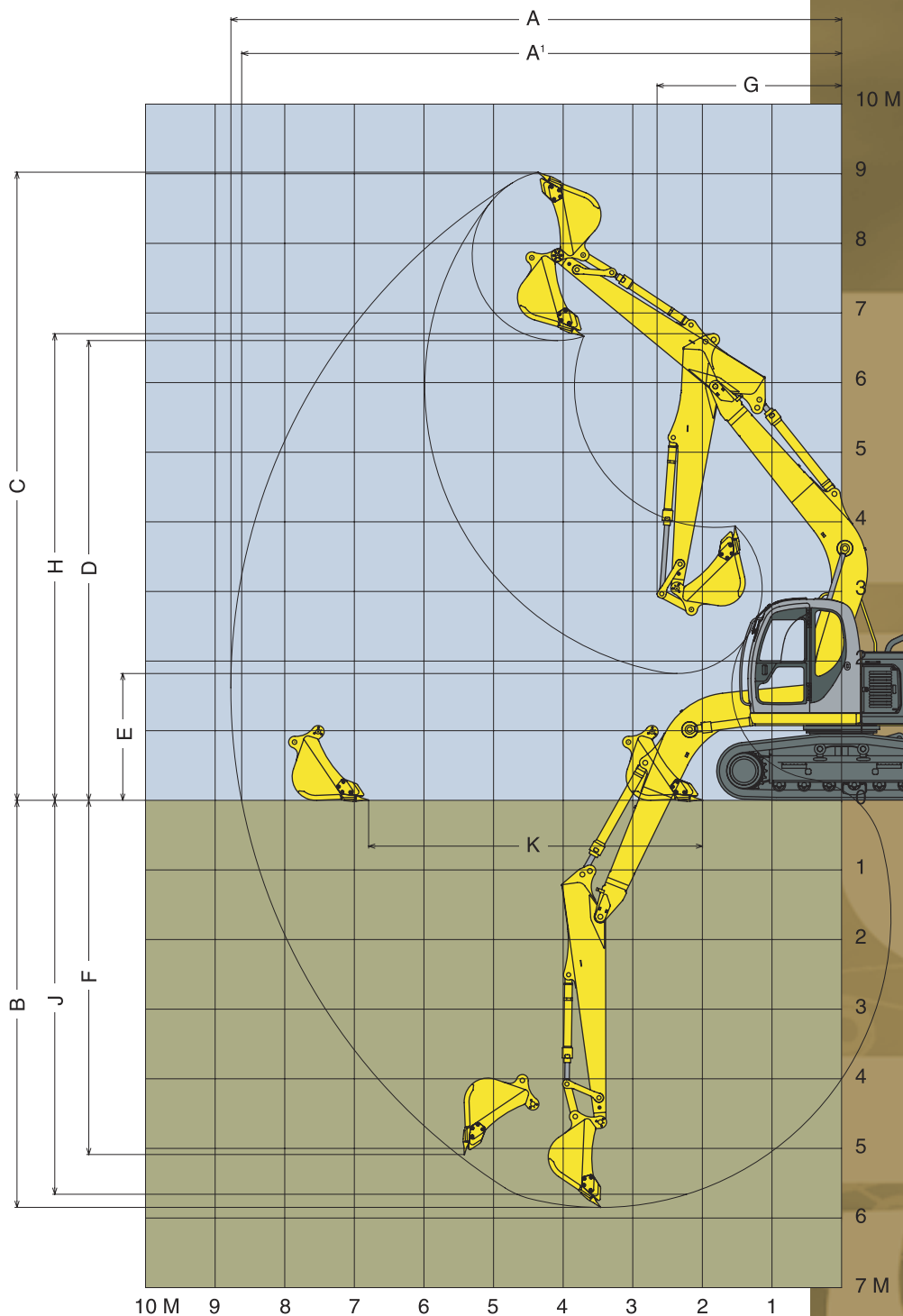
ATTACHMENT	9' 8" (2.95)
A Max. digging reach	28' 9" (8.77)
A ¹ Max. digging reach at ground level	28' 3" (8.62)
B Max. digging depth*	19' 2" (5.85)
C Max. digging height*	29' 7" (9.02)
D Max. dumping clearance	21' 8" (6.60)
E Min. dumping clearance	6' 0" (1.82)
F Max. vertical wall digging depth	16' 8" (5.09)
G Min. front swing radius	8' 8" (2.65)
H Height at min front swing radius	22' 0" (6.70)
J Digging depth at 8' (2.4 m) level bottom	18' 7" (5.66)
K Hor. digging stroke at ground level	15' 9" (4.80)
Bucket capacity SAE/PCSA heaped	0.50 cu yd (0.38 m ³)

* Excludes height of grouser bar.



[Curved track shoes (23.6") are standard on the ED150 Blade Runner. They provide improved maneuverability while still allowing excellent flotation and minimizing potential damage to asphalt and concrete surfaces.]

- H Used with material weight up to 3,000 lbs per cubic yard.
- M Used with material weight up to 2,500 lbs per cubic yard.
- L Used with material weight up to 2,000 lbs per cubic yard.
- X Not recommended.



OPERATING WEIGHT & GROUND PRESSURE

Curved triple grouser shoe width		23.6" (600 mm)
Operating weight	lb (kg)	35,720 (16,200)
Ground pressure	psi (kPa)	6.2 (43)

DOZER BLADE

Dozer blade type	Power Angle Tilt (PAT)	
Dozer blade capacity	2.86 cu yd	(1.85 cu m)
Dozer blade overall width	10' 8"	(3.255 m)
Dozer blade overall width (Wings folded)	8' 1"	(2.475 m)
Dozer blade height	2' 7"	(800 mm)
Maximum angle	+/- 25°	
Digging depth	1' 11"	(580 mm)
Dozer maximum tilt height	1' 6"	(445 mm)

STANDARD EQUIPMENT

- AM/FM radio with speakers
- Arm, 9' 8" (2.95 m) with rock guard
- Audible warning system for high coolant temperature, low engine oil pressure, clogged air filter and oil replacement interval
- Automatic engine deceleration
- Automatic hydraulic oil warm up function
- Auxiliary hydraulics: combined one-way or two-way (one or two pump) with piping and hand control
- Belly pan guard
- Boom, 15' 1" (4.6 m)
- Boom and arm holding (anti-drift) valves
- Cab is die formed, modular steel with viscous silicon-filled cab mounts, sound insulated, windshield wiper, adjustable reclining operator's seat with lap safety belt, heater and defroster, cigarette lighter, ashtray, floor mat, cab light, control lever lock, tinted skylight with damper cylinder
- Center track guides (2)
- Climate control air conditioning
- Converter, 24 to 12 volt with power outlet
- Dozer blade, 6-way Power Angle Tilt (PAT)
- Dozer control-one separate lever for all functions (lift, tilt, angle and float)
- Dual element air cleaner
- Electric horn
- Emergency electronic bypass with mechanical throttle control
- Engine shuts down automatically for low oil pressure
- Heavy duty batteries (2 x 12 volt 80 AH)
- Hydraulic track adjusters
- Isuzu engine A-4BG1T
- Lifetime lubricated track rollers, idlers and sprockets, grease cylinder track adjuster, track link disassembly mechanism, long pitch sealed and struttred track links
- Multi-display monitor includes: system status, engine preheat status, low engine oil pressure warning, engine coolant temperature level warning, engine air cleaner restriction, battery charging system, low fuel level, CPU error indicator lamp, hour meter, fuel level gauge, water temperature gauge and tachometer

- Proportional auto accel system
- Pilot operated wrist controls and foot pedals. Two levers control for boom, arm, bucket and swing
- Removable clean out screen for radiator
- Removable travel levers with toe tabs
- Self-lubricating bushings in boom foot and boom hoist cylinders
- Service diagnostics: on-board diagnostic system allows reading of engine characteristics and system pressures from inside the cab using standard equipment.
- Service diagnostics: 60 event fault code memory, accessible with standard equipment
- Starting motor (24 v/5.0 kW) and 40 amp alternator
- Straight travel system
- Swing and travel automatic parking brakes
- Swing flashers
- Swing shockless valve
- Swing priority (trenching system) functions automatically
- Track shoes, 23.6" (600 mm) curved triple grouser
- Travel alarm
- Two front working lights
- Two speed travel, automatic shift
- Working mode selector (Fine control mode, Standard mode, Heavy work mode) H mode default on start

OPTIONAL EQUIPMENT

- Boom and arm load (lock) holding valves
- Control pattern changer (two-way ISO/BHL)
- Front rain visor
- Large selection of buckets
- Vandalism guards



BLADE RUNNER™
ED150

KOBELCO®

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STOCK #KOB1270507 • 020507 • API • PRINTED IN THE U.S.A.