





# Even Stronger Attachment





# Increase in Productivity Means "Power"

Powerful travel system for early framet oversions a micks.

and helity-entable lift above tystem veture begins machine performance :

#### Crawlers Built for Unbealable Durability





#### Reinforced Guide Frame

for final year first preem deliment count by head or hrowding of beautisms (in 1914) 60,0 m/s.



#### Track Guides

Large retiriend sock pulse provisions in overloads.



#### Lower Frame Underside Cover

Hattailly polony and inquiried property legacity through from



#### Improved Filtration System Reliability

Clean, contaminant free fuel and hydraulic fluid are essential to stable performance.

The improved filtration systems reduce the risk of mechanical trouble and enhance longevity and durability.

#### Pilot Line Filter

An enlarged Limitage luce plot filter semplifies thurstimunes



#### Hydraulic Fluid Filter

Recognized as the best in the industry, the premium time. Title sequenties had even the cruitlest particles. Nime asset presents continuously when changing titlers.



# Evolution Continues, with Improved Fuel Efficiency

pher fuel saving means "Efficiency"

The arm regeneration flow system more efficiently controls hydraulic fluid flow, and significant reduction of in-line resistance and pressure loss boosts fuel efficiency.

Sucket with Power and Efficiency

Franks on the partners and in higher probability

#### 2.09 m Arm

- MAKE backet digging force
- --- 89.2 kN
- NAME are asserting force

--- 71.5 kN

- Mix. digging reads:
- 8,090 mm
- Mark Committee of the

5,280 mm

4,880 mm

#### **Energy Saving System Saves Fuel Further**

#### Fuel Efficient Work Mode ECO-mode

The fair plung ACO mode is terrify (musted for the work mode, " sometime according to a decrease operation, fluid posturation can be

#### Dpenation Mode



#### ECO-mode

Manager has accompanies for order property and other work that demands promoted



#### H-mode

Married great by reason probables, as new trackers labor



#### 5-mod

Mind batteries of printing tietry and fact efficiency for a range of urban angineering projects.

#### AlS (Auto Idle Stop)

Fine bigoning (German'ung trins it in us. The origine will most international fine distribution in strickly along during mentily saving fuel and reducing COs.



#### **Pursuing Maximum Fuel Efficiency**

#### Common Rail System

EN

hat, and many precion assesses his hat, and many pressor reposition represent combustion efficiency. The also combusts to became fast econom-



# Comfortable Cab Is Now Safer than Ever



Larger Cab

elle larger from the prevents right committy. A relative pressurement plants short by the preliment is committee.

#### Air Conditioner Louvers behind the Seat



The large an conditioner has writte on the back gitters that dissistant behind and to the right and left of the operator's seat. They can be adjusted in your a disnot fine of coolinaries at on the operator, which makes a mine conditionable operating environment.

SK140.

#### Larger Cab is Easy to Get in and out of



The impanished cuto prevides greenly of exons for a large door, more healthcom and importer entry and exit.

#### A Lighter Touch Lever, Means Smoother, Less Tiring Work



If takes 30% less effort to work the represent lesse, which reduces brigait over long working fours or continues.

#### Super-Airtight Cab



The high lead of sir-forestern keeps that the old the risk. He'ps and or J'had

#### Wide View for Operator Advantage

The hind juintime harbons one large posts of glass inflicable a colors piles on the high lide for a side; unablitated ones.

#### Safety

#### Expanded Field of View for Greater Safety





Greater Lidely awared by marient, etimore on left and light, and a thin terms etimoted at assess right.





#### More Comfortable Seat Means Higher Productivity





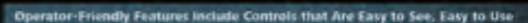


#### Interior Equipment Adds to Comfort and Convenience











#### Multi-Display in Color

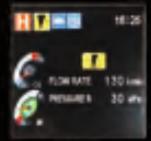
Billiam poors and graphic displicat are easy to recognize on the SCD multi-display in the commit. The Biguing Shows fail communition, maintenance intervals, and more.



Plant Lancong Str.



Uprtenacy



Street, Square,

- Average parties on training meating if fast leaf and entire
- Samp light age of places from the control of the co
- Fuel (amuniphors) ent/in edicated for less clargers insign
- Maritire display leastly

#### One-Touch Attachment Mode Switch

A target fouch sit a button, switched the hybracist creat and flow amount to ments attachment changes, looks help the Gawarantii confine the proper configuration at a glience.

# **Efficient Maintenance** Keeps the Machine in **Peak Operating Condition**

# MAINTENANCE 121 MARIN 100 496 8000 4895

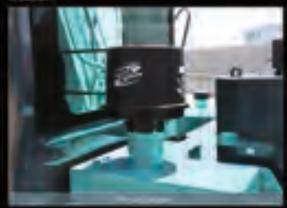
#### Machine Information Display Function

- Degines only the mannings of common that's restrict, after it's dense?
   Coll department function provides early assuming direction and dispute of about Service response. Service research it seems to shoot the quality of the machine.

#### Pre-Air Cleaner (Optional for 5K140)

stor Liquidity of new pre-sir deserve equipped at standard on SET-RENDLE SIMPLE the program rulesing bleen even in proofs.

professional and Contract processions to automorphy discharged



#### More Efficient Maintenance Inside the Cab



s can be eatily introved without

#### Easy Maintenance



#### Maintenance Work, Daily Checks, Etc., Can Be Done from Ground Level

The liquid allows hit every access from the girouth for inley, thely checks and





#### Easy Cleaning







# GEO SCAN

manager of some





# Engine

11111	THE SECOND SECON					
Tirpe	Flux lyttle water accord; swetwisk construits verhal in time, drives represent type, with balland larger					
No. of cylenters	4					
Boot and streke	95.4 mm; v. 104.9 mm					
Orginament	2,999-49					
flavel preent outself	25 // MV/2 000 mar* 850 14386					
Max sorque	365 Nove / 1,600 PHY (SQ 14)96)					



# Hydraulic System

-	
Type:	Two sanishir displacement primps a one pear pump-
Max discharge floir	2 x 190 4 Limin, 1 x 29 - Limin
Refer salve setting	
Soom, arm and bucket.	34.3 Mfs (350 kgflow))
Tanvel singati	34.3 MFs (350 kg/km²)
Swing circuit	28.2 NAV (286. kg/kin/);
Control circuit:	50 Mfe(S) bylow()
Plat coresi pump	Searcine
Main control intire	GP-Spool value
Oli conimi	Air poosed type-



# Swing System

Siving multiri	Assi poton-motor						
Mession	Hydraulic locking automatically when the puring control lever is in heutral position.						
Parting trake	Of the trate, hydrody operated automatically						
Swing speed	10.9 min (2.5ml)						
Tail many colum	2,300 mm						
Min. York swing ratios	2.436 mm						



## Attachments

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### Travel System

Travel motors		2 y analysists, two step exerci-					
Travel brokes		Hydraulic brains per motor					
Parking India		CH SSE State per restar					
	DE140	46 packrole					
Tracer shoes	MINISTRE	46 each pion					
Though spoord	Low/wagto	£3757 lmh					
Drawber pulling torys Goodestellity		142 km (14,500 kgf; 584					
		MAINA					



International Comfort Call with But five enclasive and sifts internal pressure of Efpi Ineter cat 2 fpui. All counter, south suppressed little can equipped with alway, mulated free rest

Two hand leves and two host petast. for travel Two hard learn to expeating and swing. Decard notiny type engine throatin-



# Boom, Arm & Bucket

Boors cylinders	150 from a 1,000 com
Am spinier	(1) mm + 1,110 mm
Bucket cylinder	95



# Refilling Capacities & Lubrications

Fari tank	271 i.
Cooling system	W.A.
Engine of	10-1
Travel reduction gear	2+211
Twing Induction goal	Letall
and the state of	943 stank striest
mydraulic oil care	190 L federale system

			Earthrop Insulant National diagrams			
Bucket appacity	ISO hosped	Conf.	0.6	0.7		
	60 truck		10-81	0.5		
Diversing south	STATE SAME CATTON	100	1,120	1,230		
	Without side carrier	per	1.010	1,160		
Ass. of Swelly			1	- 4		
Backet yength		140	1520	1.00		
Continuation.	2 Direction arm with MO	501.00	0	0		
	2 sheet sheet and sheet fired	SETASROLIC	D			
	LA MANAGE CON	58,140				
	2.84m lung ann	SHARROLD	D D	Δ		



# **Working Ranges**

Unit: mm

-: 2.09 m Arm -: 2.84 m Arm

Boom	4.68m					
Range Arm	Standard 2.09 m	Long 2.84 m				
a- Max. digging reach	8,090	8,830				
b- Max. digging reach at ground level	7,930	8,690				
c- Max. digging depth	5,280	6,030				
d- Max. digging height	8,300	8,850				
e- Max. dumping clearance	5,810	6,350				
f- Min. dumping clearance	2,490	1,760				
g- Max. vertical wall digging depth	4,880	5,620				
h- Min. swing radius	2,620	2,800				
i- Horizontal digging stroke at ground level	3,580	4,670				
j- Digging depth for 2.4 m (8') flat bottom	5,020	5,840				
Bucket capacity ISO heaped m <sup>3</sup>	0.6 / 0.7	0.45				

#### Digging Force (ISO 6015)

Unit: kN

Arm length	Standard 2.09 m	Long 2.84 m		
Bucket digging force	89.2	89.3		
Arm crowding force	71.5	57.9		

\*Figures are based on 0.6 m³ bucket.



# **Dimensions**

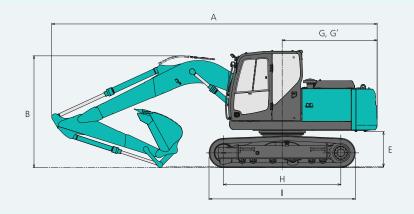
Unit: mm

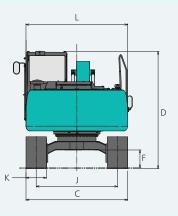
Aı	rm length	Standard 2.09m	Long 2.84m			
Α	Overall length	7,970 7,940				
В	Overall height (to top of bo	2,740 3,130				
C	Overall width of crawler	2,490				
D	Overall height (to top of cal	2,880				
Ε	Ground clearance of rear er	nd*	860			
г	Ground clearance*	SK140	43	35		
Г	Ground clearance"	SK145XDLC	41	5		

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			Unit: mm
G	Tail swing radius	2,330	
G'	Distance from centre of swir	2,330	
н	Tumbler distance	SK140	2,870
П	rumbier distance	SK145XDLC	3,040
1	Overall length of crawler	SK140	3,580
•	Overall leligth of crawler	SK145XDLC	3,750
J	Track gauge	1,990	
K	Shoe width	500	
L	Overall width of upperstruc	2,490	

\*Without including height of shoe

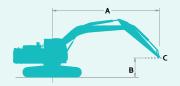


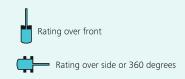


## **Operating Weight & Ground Pressure**

In standard trim, with standard boom, 2.09 m arm, and 0.7 m³ ISO heaped bucket (SK140 with 0.6 m³ bucket)

Shaped			Triple grouser shoes (even height)					
Shoe width mm			500	700				
Overall width of crawler	SK140	mm	2,490	2,690				
Overall width of crawler	SK145XDLC	mm	2,490	2,690				
Ground proceuro	SK140	kPa	41	30				
Ground pressure	SK145XDLC	kPa	41	30				
Operating weight	SK140	kg	13,000	13,300				
Operating weight	SK145XDLC	kg	13,700	14,100				





A: Reach from swing centerline to arm top

B: Arm top height above/below ground

C: Lift point

Bucket: Without bucket

Relief valve setting: 34.3 MPa (350 kgf/cm²)

SK140-10	E	Arm: 2.09 m Bucket: without Shoe: 500 mm Counterweight: 2,000 kg													
	Α	1.5m		3.0m		4.5m		6.0m		At max. reach					
В			<b>—</b>	4	<b>—</b>	4	<b>—</b>	4	<b>—</b>	4	<b>—</b>	Radius			
6.0m	kg					*3,540	3,440			*2,520	*2,520	5.07m			
4.5m	kg					*3,760	3,360	*2,980	2,060	*2,330	1,990	6.11m			
3.0m	kg			*6,860	5,760	*4,570	3,120	2,990	2,000	*2,330	1,680	6.65m			
1.5m	kg					4,430	2,850	2,870	1,890	2,370	1,560	6.81m			
G.L.	kg			*5,720	4,870	4,250	2,690	2,790	1,810	2,420	1,580	6.63m			
-1.5m	kg	*5,660	*5,660	8,500	4,910	4,210	2,660	2,780	1,810	2,740	1,790	6.06m			
-3.0m	kg			*7,290	5,070	4,310	2,750			3,720	2,410	4.98m			

SK140-1	0E	Arm: 2.84 m Bucket: without Shoe: 500 mm Counterweight: 2,000 kg												
	А	1.5	5m	3.0m		4.5m		6.0m		7.5m		At max. reach		
В		4	<b>—</b>	4	<b>—</b>	4	<b>—</b>	4	<b>—</b>	4	<b>—</b>	1	<b>—</b>	Radius
7.5m	kg											*2,060	*2,060	4.49m
6.0m	kg							*1,860	*1,860			*1,700	*1,700	6.04m
4.5m	kg							*3,020	2,110			*1,580	*1,580	6.93m
3.0m	kg			*5,250	*5,250	*3,890	3,200	3,010	2,010			*1,570	1,380	7.41m
1.5m	kg			*8,020	5,230	4,480	2,890	2,860	1,870	*1,940	1,300	*1,640	1,280	7.55m
G.L.	kg			*6,300	4,800	4,220	2,660	2,740	1,760			*1,820	1,290	7.39m
-1.5m	kg	*4,440	*4,440	8,300	4,730	4,120	2,560	2,680	1,710			*2,170	1,420	6.88m
-3.0m	kg	*7,520	*7,520	*8,220	4,830	4,140	2,580					2,750	1,770	5.96m
-4.5m	kg			*5,820	5,110							*3,710	2,930	4.34m

SK145XDLC	-10E	Arm: 2.09 m Bucket: without Shoe: 500 mm Counterweight: 2,480 kg												
	Α	1.5m		3.0m		4.5m		6.0m		At max. reach				
В		4	<b>—</b>	4	<b>—</b>	4	<b>—</b>	4	<del></del>	1	<b>—</b>	Radius		
6.0m	kg					*3,540	*3,540			*2,520	*2,520	5.07m		
4.5m	kg					*3,760	3,730	*2,980	2,330	*2,330	2,250	6.11m		
3.0m	kg			*6,860	6,430	*4,570	3,490	3,560	2,260	*2,330	1,910	6.65m		
1.5m	kg					5,340	3,230	3,450	2,160	*2,480	1,780	6.81m		
G.L.	kg			*5,720	5,540	5,150	3,070	3,360	2,080	*2,830	1,820	6.63m		
-1.5m	kg	*5,660	*5,660	*8,790	5,580	5,110	3,040	3,350	2,070	3,310	2,050	6.06m		
-3.0m	kg			*7,290	5,740	*4,960	3,120			*4,250	2,740	4.98m		

SK145XDLC	-10E	Arm: 2.84	m Bucket:	without Sh	oe: 500 mn	n Counterw	reight: 2,48	0 kg	_	_	_	_	_	
	А	1.5m		3.0m		4.5m		6.0m		7.5m		At max. reach		
В		4	<b>—</b>	4	<b>—</b>	4	<b>—</b>	4	<b>—</b>	4	<b>—</b>	1	<b>—</b>	Radius
7.5m	kg											*2,060	*2,060	4.49m
6.0m	kg							*1,860	*1,860			*1,700	*1,700	6.04m
4.5m	kg							*3,020	2,370			*1,580	*1,580	6.93m
3.0m	kg			*5,250	*5,250	*3,890	3,570	*3,350	2,270			*1,570	*1,570	7.41m
1.5m	kg			*8,020	5,900	*4,940	3,260	3,440	2,140	*1,940	1,500	*1,640	1,480	7.55m
G.L.	kg			*6,300	5,480	5,130	3,030	3,310	2,020			*1,820	1,500	7.39m
-1.5m	kg	*4,440	*4,440	*8,640	5,400	5,010	2,940	3,250	1,970			*2,170	1,640	6.88m
-3.0m	kg	*7,520	*7,520	*8,220	5,500	5,040	2,960					*2,960	2,030	5.96m
-4.5m	kg			*5,820	5,780							*3,710	3,320	4.34m

#### Notes:

- 1. 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
- 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. Arm top defined as lift point.

- 4. The above lift capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lift capacities marked with an asterisk (\*) are limited by hydraulic capacity rather than tipping load.

  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 machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.
   The above figures indicate machine capacity, but in practice the machine should not be used for
- lifting loads.



#### STANDARD EQUIPMENT

#### **ENGINE**

- Engine, ISUZU 4JJ1, diesel engine with turbocharger and intercooler
- Automatic engine deceleration
- Auto Idle Stop (AIS)
- Batteries (2 x 12 V 110 Ah)
- Starting motor (24 V 4 kW), 50 amp alternator
- Engine oil pan drain valve
- Double element air cleaner
- Pre-air cleaner

#### **BUCKET**

- 0.6 m³ bucket\*\*
- 0.7 m³ bucket\*

#### CONTROL

- Working mode selector (H-mode, S-mode and ECO-mode)
- SWING SYSTEM & TRAVEL SYSTEM
- Swing rebound prevention system
- Straight propel system
- Two-speed travel with automatic shift down
- Sealed track links
- Grease-type track adjusters
- Automatic swing brake
- Lower under side cover\*
- 500 mm HD shoe plate

#### **HYDRAULIC**

- Aluminum hydraulic oil cooler
- Pilot line filter

#### **MIRRORS & LIGHTS**

- Two rear view mirrors
- Three front working LED lights (one for boom, one for cab and one for right storage box)\*

#### CAB & CONTROL

- Two control levers, pilot-operated
- Horn, electric
- Integrated left-right slide-type control box
- Cab, all-weather sound suppressed type
- Cab light (interior)
- Coat hook
- **■** Luggage tray
- Large cup holder
- Detachable two-piece floor mat
- Double slide seat
- Mechanical suspension seat
- Headrest
- Handrails
- Intermittent windshield wiper with double-spray washer
- Pull-up type front window and removable lower front window
- Easy-to-read color monitor
- Automatic air conditioner\*
- Emergency escape hammer
- 24 V outlet
- GEOSCAN

#### **OPTIONAL EQUIPMENT**

- Two cab LED lights
- Rearview camera 0.6 m³ bucket\*
- Breaker piping
- N&B piping
- HD long arm 2.84 m

- 700 mm HD shoe plate
- Additional cab light
- Automatic discharge pre-air cleaner\*\*
- Travel alarm
- Automatic air conditioner\*\*

\*for SK145XDLC \*\*for SK140

Note: Standard and optional equipment may vary. Consult your KOBELCO Dealer for specifics.

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 notice. Copyright by KOBELCO CONSTRUCTION MACHINERY CO., LTD. No part of this catalog may be reproduced in any manner without permission.

#### **KOBELCO CONSTRUCTION EQUIPMENT INDIA PVT. LTD.**

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