



FLORIDA SHERIFFS ASSOCIATION BID FSA20-EQU18.0 ITEM #95  
MINI HYDRAULIC EXCAVATOR 7,105LB OPERATING WEIGHT

Base Kobelco SK35SR Excavator  
2-13 Rubber Tracks  
3-01 Standard Boom  
4-05 Long Arm 5'6"  
1MNHD12 12" Excavating Bucket

KOBELCO

SK30SR-6E  
SK35SR-6E

MINI EXCAVATORS  
SK30SR  
SK35SR



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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PASSION



## ENVIRONMENT

### iNDr Cooling System

#### The Revolutionary Integrated Noise and Dust Reduction Cooling System



The iNDr system on the SK30SR /SK35SR features air intake at the front of the machine and air exhaust underneath. It functions in the same way as the iNDr system on the SR series machines.

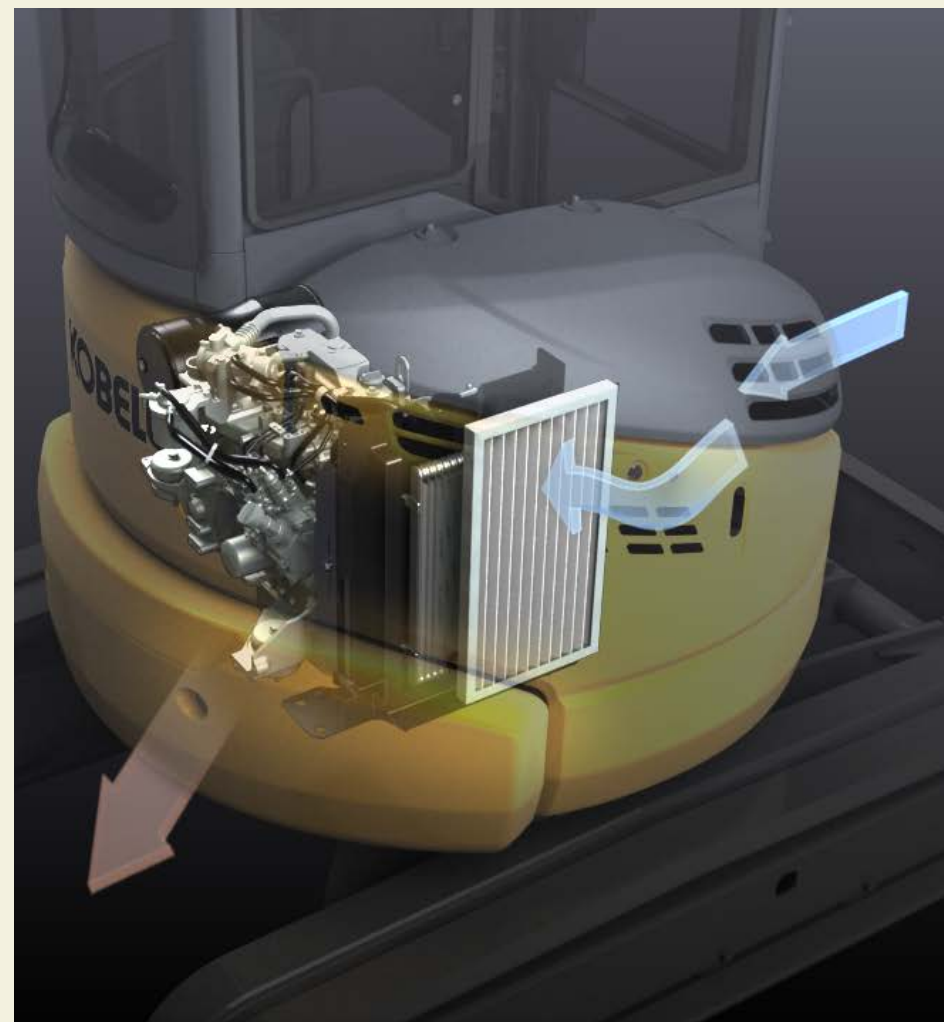
#### iNDr Filter Blocks Out Dust

Outside air goes directly from the intake duct through the iNDr filter for dust removal, protecting vital engine coolers in adverse conditions.



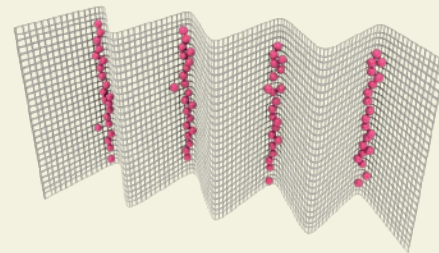
#### Visual Checking and Easy Cleaning

Because the iNDr filter removes dust from the intake air, cooling components stay dirt-free and do not require regular cleaning. The iNDr filter itself can be easily removed and cleaned without the use of tools.



#### iNDr Filter

The stainless-steel filter is extremely effective against dust, with 30-mesh wave-type screen that removes tiny dust particles from the intake air.



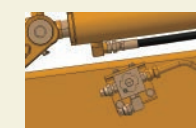
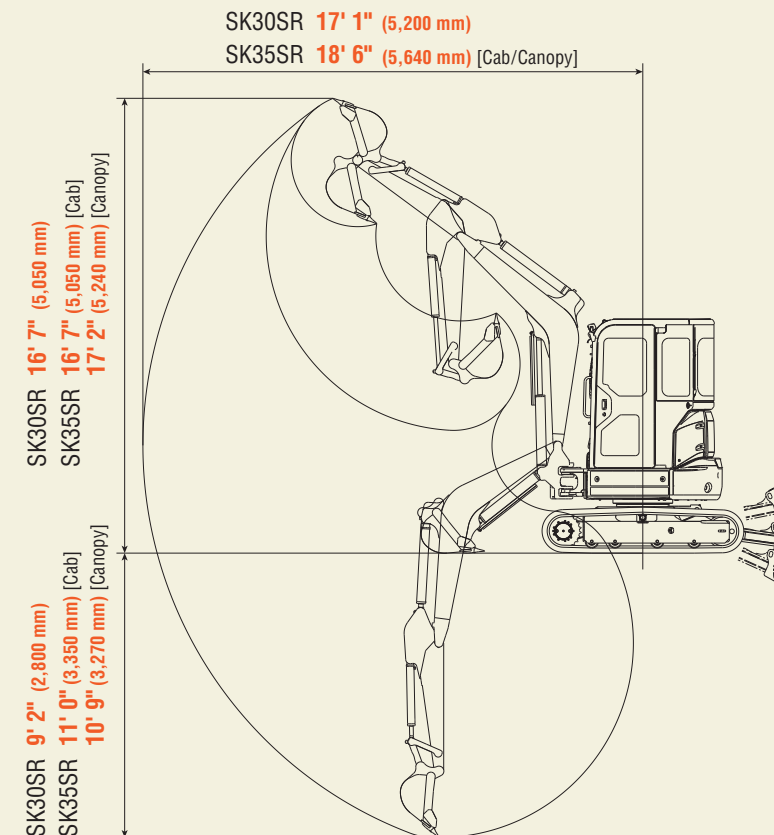
•30-mesh means that there are 30 holes formed by horizontal and vertical wires in every square inch of filter.

## PERFORMANCE

### Compact, yet, Big Performance

#### Wide Working Range

A larger boom and arm are provided as standard equipment to ensure a wider working range.



#### N&B/thumb bracket switching valve

N&B/thumb bracket switching valve installed at tip of arm as standard.

When changing between attachments, the hydraulic circuit can simply be switched with the valve, without the need to recouple the hose.

#### Energy Conservation Mode

The SK30SR/SK35SR adapts S mode which enables 25 percent less fuel consumption compared with the previous model.



#### One Touch Deceleration

The SK30SR/SK35SR features one-touch deceleration. It allows easy switching to an idling mode, reducing fuel consumption while the machine is at rest. Under complete control of the operator.

#### Short Tail Swing

The compact tail swing improves operating efficiency in limited space.

#### Tail overhang:

SK30SR 0" (0 mm) [Standard weight]  
4" (90 mm) [Additional weight]  
SK35SR 0" (0 mm) [Standard weight]  
4" (90 mm) [Additional weight]

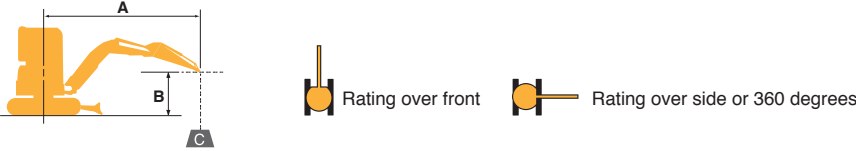


#### Easy Transportability











With an overall cab height of 8' 3" (2,510 mm), the machine is designed for easy transport.













LIFTING CAPACITIES



A: Reach from swing centerline to arm tip  
B: Arm tip height above/below ground  
C: lifting capacities in pounds  
Shoe: Rubber shoe Dozer blade: Down  
Relief valve setting: 3,335 psi (23 MPa)

SK30SR Canopy		Arm: 4' 4" (1.32m), Without bucket, Shoe: 11.8" (300mm) STD. Counterweight										
A  B		5'(1.5m)		7.5'(2.3m)		10'(3.0m)		12.5'(3.8m)		At Max. Reach		Radius
												
12.5' (3.8 m)	lb (kg)									*1,810 (820)	1,120 (500)	10'10" (3.31 m)
10' (3.0 m)	lb (kg)							*1,700 (770)	880 (390)	*1,720 (780)	820 (370)	12'11" (3.94 m)
7.5' (2.3 m)	lb (kg)					*1,950 (880)	1,250 (560)	*1,750 (790)	870 (390)	*1,710 (770)	700 (310)	14'1" (4.30 m)
5' (1.5 m)	lb (kg)					*2,430 (1,100)	1,160 (520)	*1,940 (870)	830 (370)	*1,730 (780)	640 (290)	14'8" (4.47 m)
2.5' (0.8 m)	lb (kg)					*2,830 (1,280)	1,080 (480)	*2,110 (950)	790 (350)	*1,760 (790)	620 (280)	14'7" (4.46 m)
Ground Level	lb (kg)			*4,580 (2,070)	1,560 (700)	*2,970 (1,340)	1,040 (470)	*2,160 (970)	760 (340)	*1,790 (810)	650 (290)	14'1" (4.30 m)
-2.5' (-0.8 m)	lb (kg)	*4,430 (2,000)	3,220 (1,460)	*4,090 (1,850)	1,580 (710)	*2,770 (1,250)	1,030 (460)	*1,950 (880)	770 (340)	*1,800 (810)	740 (330)	12'10" (3.93 m)
-5' (-1.5 m)	lb (kg)	*4,890 (2,210)	3,300 (1,490)	*3,070 (1,390)	1,630 (730)	*2,060 (930)	1,070 (480)			*1,710 (770)	970 (430)	10'9" (3.28 m)

SK30SR Canopy		Arm: 4' 4" (1.32m), Without bucket, Shoe: 11.8" (300mm) Heavy Counterweight (+551lb/250kg)										
A  B		5'(1.5m)		7.5'(2.3m)		10'(3.0m)		12.5'(3.8m)		At Max. Reach		Radius
												
12.5' (3.8 m)	lb (kg)									*1,810 (820)	1,320 (590)	10'10" (3.31 m)
10' (3.0 m)	lb (kg)							*1,700 (770)	1,050 (470)	*1,720 (780)	990 (440)	12'11" (3.94 m)
7.5' (2.3 m)	lb (kg)					*1,950 (880)	1,470 (660)	*1,750 (790)	1,030 (460)	*1,710 (770)	840 (380)	14'1" (4.30 m)
5' (1.5 m)	lb (kg)					*2,430 (1,100)	1,380 (620)	*1,940 (870)	990 (440)	*1,730 (780)	780 (350)	14'8" (4.47 m)
2.5' (0.8 m)	lb (kg)					*2,830 (1,280)	1,300 (580)	*2,110 (950)	960 (430)	*1,760 (790)	760 (340)	14'7" (4.46 m)
Ground Level	lb (kg)			*4,580 (2,070)	1,890 (850)	*2,970 (1,340)	1,260 (570)	*2,160 (970)	930 (420)	*1,790 (810)	790 (350)	14'1" (4.30 m)
-2.5' (-0.8 m)	lb (kg)	*4,430 (2,000)	3,850 (1,740)	*4,090 (1,850)	1,910 (860)	*2,770 (1,250)	1,250 (560)	*1,950 (880)	930 (420)	*1,800 (810)	900 (400)	12'10" (3.93 m)
-5' (-1.5 m)	lb (kg)	*4,890 (2,210)	3,940 (1,780)	*3,070 (1,390)	1,960 (880)	*2,060 (930)	1,290 (580)			*1,710 (770)	1,170 (530)	10'9" (3.28 m)

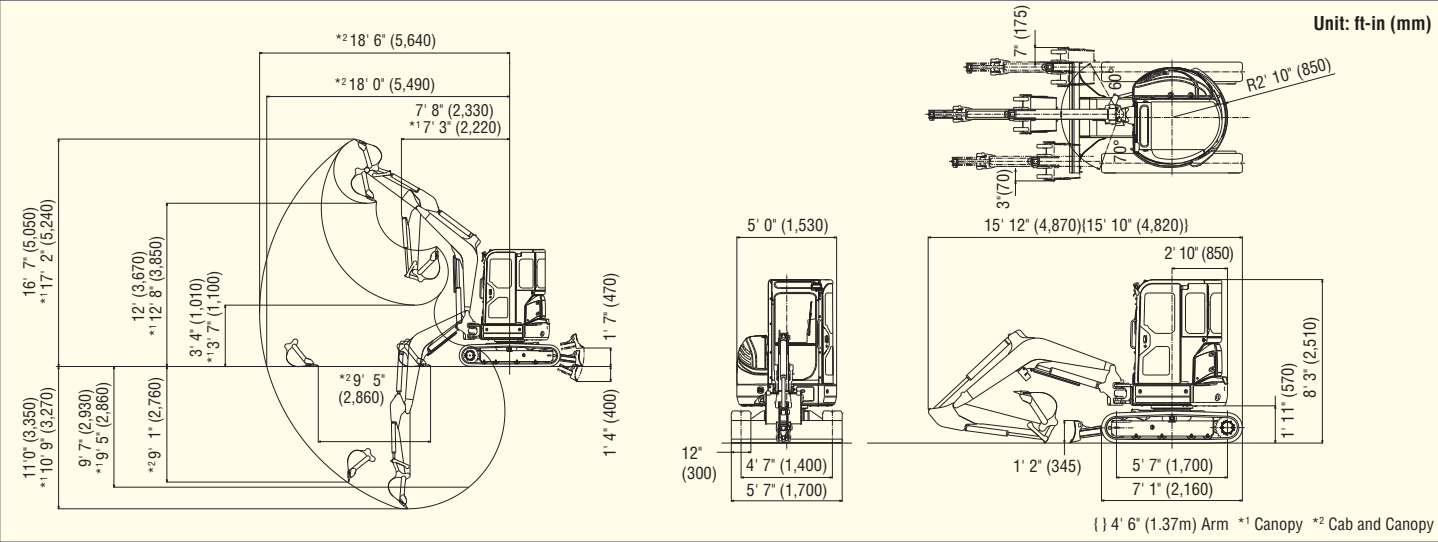
SK35SR SPECIFICATIONS

GENERAL				
MODEL			SK35SR	
Type			SK35SR-6E	
Machine Mass	Cab	lbs (kg)	8,555 (3,880)	
	Canopy	lbs (kg)	8,214 (3,725)	
Bucket Capacity		cu ft (m³)	3.88 (0.11)	
Bucket Width (with side cutter)		ft-in (mm)	2' (600)	
Arm Length		ft-in (m)	5' 6" (1.67)	
Bucket Digging Force (SAE J1179)		lbf (kN)	5,418 (24.1)	
			7,216 (32.1): Two pin bucket	
Bucket Digging Force (ISO 7451)		lbf (kN)	6,250 (27.8)	
			8,588 (38.2): Two pin bucket	
Arm Crowding Force (SAE J1179)	4' 6" (1.37m) Arm	lbf (kN)	4,810 (21.4)	
	5' 6" (1.67m) Arm	lbf (kN)	4,200 (18.7)	
Arm Crowding Force (ISO 7451)	4' 6" (1.37m) Arm	lbf (kN)	5,058 (22.5)	
	5' 6" (1.67m) Arm	lbf (kN)	4,380 (19.5)	
ENGINE				
Model			YANMAR 3TNV88F-E	
Type			Water cooled, 4-cycle, 3-cylinder, direct injection, diesel engine	
Power Output		hp (kW)/rpm	23.1 (17.2)/2,400 (SAE NET)	
Max. Torque		lbf-ft (N-m)/rpm	60 (81.7)	
Displacement		cu in (L)	100.2 (1.642)	
Fuel Tank		U. S. gal (L)	11 (42)	
HYDRAULIC SYSTEM				
Pump			Two variable displacement pumps + two gear pumps (one for pilot)	
Max. Discharge Flow		US gal (L)/min	2 x 10.1 (38.4) 5.1 (19.2) 2.9 (10.8)	
Relief Valve Setting (Excavating circuits)		psi (Mpa)	3,335 (23.0)	
Relief Valve Setting (Dozer circuit)		psi (Mpa)	3,335 (23.0)	
Hydraulic Oil Tank (system)		US gal (L)	5.4 (20.4) (11.8 (44.8))	

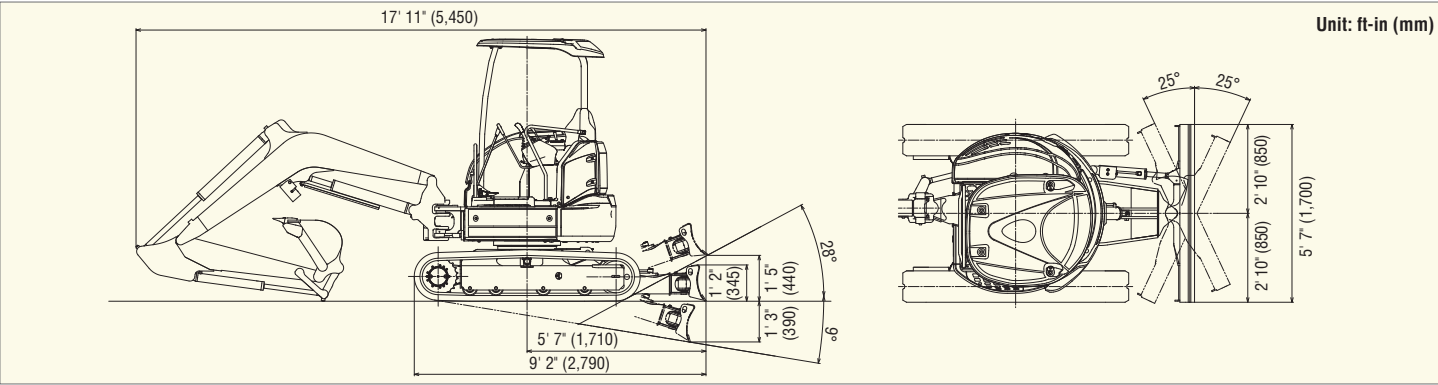
TRAVEL SYSTEM					
Travel Motors				2 x axial-piston, two-step motors	
Parking Brake				Oil disc brake per motor	
Travel Speed (high/low)				mph (km/h)	
				2.7 (4.4) /1.6 (2.5)	
Drawbar Pulling Force (SAE)		Cab	lbf (kN)		8,565 (38.1)
		Canopy	lbf (kN)		8,587 (38.2)
CRAWLER					
Shoe Width			in (mm)		11.8" (300)
Ground Pressure	Cab	Rubber	psi (kPa)		4.9 (33.8)
		Steel	psi (kPa)		5.0 (34.6)
	Canopy	Rubber	psi (kPa)		4.7 (32.4)
		Steel	psi (kPa)		4.8 (33.2)
DOZER BLADE					
Width x Height			ft-in (mm)		5' 7" (1,700) x 1' 2" (345)
Working Ranges (height/depth)			ft-in (mm)		1' 7" (470) / 1' 4" (400)
SWING SYSTEM					
Swing Motor				Axial piston motor	
Parking Brake				Oil disc brake, hydraulic operated automatically	
Swing Speed			min <sup>-1</sup> (rpm)		8.4
Tail Swing Radius			ft-in (mm)		2' 10" (850)
Min. Front Swing Radius	Over the front	Cab	ft-in (mm)		7' 7" (2,320)
		Canopy	ft-in (mm)		7' 7" (2,320)
	At full boom swing	Cab	ft-in (mm)		6' 4" (1,930)
		Canopy	ft-in (mm)		6' 4" (1,930)
SIDE DIGGING MECHANISM					
Type		Boom swing			
Offset Angle	To the left	degree		70	
	To the right	degree		60	
HYDRAULIC P.T.O					
		Output	PSI(Mpa)	US gal(L/min)	
Specification				2,000 rpm	1,000 rpm
N&B			3,335(23.0)	12.7(48.0)	6.3(24.0)
Rotary			3,335(23.0)	4.2(16.0)	2.1(8.0)

SK35SR WORKING RANGES & DIMENSIONS

5' 6" (1.67m) Arm

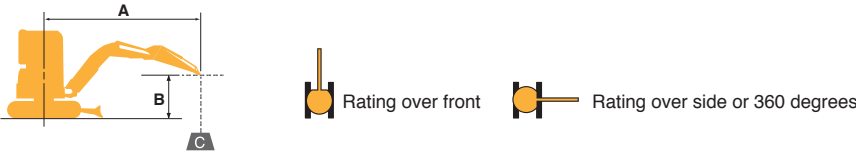


SK35SR 4-WAY BLADE 5' 6" (1.67m) Arm





























LIFTING CAPACITIES



A: Reach from swing centerline to arm tip  
B: Arm tip height above/below ground  
C: lifting capacities in pounds  
Shoe: Rubber shoe    Dozer blade: Down  
Relief valve setting: 3,335 psi (23 MPa)

SK35SR Cab		Arm: 5' 6" (1.67m), Without bucket, Shoe: 11.8" (300mm) Heavy Counterweight (+551lb/250kg)												
A		5'(1.5m)		7.5'(2.3m)		10'(3.0m)		12.5'(3.8m)		15'(4.6m)		At Max. Reach		Radius
														
B														
12.5' (3.8 m)	lb (kg)							*1,560 (700)	*1,560 (700)			*1,610 (730)	1,490 (670)	12'10" (3.92 m)
10' (3.0 m)	lb (kg)							*1,490 (670)	*1,490 (670)			*1,550 (700)	1,210 (540)	14'7" (4.45 m)
7.5' (2.3 m)	lb (kg)							*1,650 (740)	1,540 (690)	*1,620 (730)	1,150 (520)	*1,520 (680)	1,080 (480)	15'7" (4.76 m)
5' (1.5 m)	lb (kg)			*3,460 (1,560)	3,190 (1,440)	*2,340 (1,060)	2,060 (930)	*1,920 (870)	1,480 (670)	*1,720 (780)	1,130 (510)	*1,550 (700)	1,010 (450)	16'1" (4.90 m)
2.5' (0.8 m)	lb (kg)			*4,860 (2,200)	2,960 (1,340)	*2,940 (1,330)	1,960 (880)	*2,210 (1,000)	1,430 (640)	*1,840 (830)	1,100 (490)	*1,640 (740)	1,000 (450)	16'1" (4.90 m)
Ground Level	lb (kg)	*2,350 (1,060)	*2,350 (1,060)	*5,250 (2,380)	2,880 (1,300)	*3,280 (1,480)	1,890 (850)	*2,400 (1,080)	1,390 (630)	*1,900 (860)	1,090 (490)	*1,800 (810)	1,030 (460)	15'7" (4.75 m)
-2.5' (-0.8 m)	lb (kg)	*4,150 (1,880)	*4,150 (1,880)	*5,060 (2,290)	2,870 (1,300)	*3,310 (1,500)	1,870 (840)	*2,400 (1,080)	1,380 (620)			*1,870 (840)	1,130 (510)	14'6" (4.44 m)
-5' (-1.5 m)	lb (kg)	*6,400 (2,900)	6,060 (2,740)	*4,400 (1,990)	2,900 (1,310)	*2,960 (1,340)	1,890 (850)	*2,050 (920)	1,400 (630)			*1,930 (870)	1,360 (610)	12'9" (3.90 m)
-7.5' (-2.3 m)	lb (kg)	*5,020 (2,270)	*5,020 (2,270)	*2,950 (1,330)	*2,950 (1,330)							*1,880 (850)	*1,880 (850)	9'9" (2.98 m)

SK35SR Canopy		Arm: 5' 6" (1.67m), Without bucket, Shoe: 11.8" (300mm) Heavy Counterweight (+551lb/250kg)												
A		5'(1.5m)		7.5'(2.3m)		10'(3.0m)		12.5'(3.8m)		15'(4.6m)		At Max. Reach		Radius
														
B														
12.5' (3.8 m)	lb (kg)							*1,560 (700)	1,510 (680)			*1,610 (730)	1,440 (650)	12'10" (3.92 m)
10' (3.0 m)	lb (kg)							*1,490 (670)	*1,490 (670)			*1,550 (700)	1,170 (530)	14'7" (4.45 m)
7.5' (2.3 m)	lb (kg)							*1,650 (740)	1,480 (670)	*1,620 (730)	1,110 (500)	*1,520 (680)	1,030 (460)	15'7" (4.76 m)
5' (1.5 m)	lb (kg)			*3,460 (1,560)	3,080 (1,390)	*2,340 (1,060)	1,990 (900)	*1,920 (870)	1,430 (640)	*1,720 (780)	1,090 (490)	*1,550 (700)	970 (430)	16'1" (4.90 m)
2.5' (0.8 m)	lb (kg)			*4,860 (2,200)	2,850 (1,290)	*2,940 (1,330)	1,880 (850)	*2,210 (1,000)	1,380 (620)	*1,840 (830)	1,060 (480)	*1,640 (740)	960 (430)	16'1" (4.90 m)
Ground Level	lb (kg)	*2,350 (1,060)	*2,350 (1,060)	*5,250 (2,380)	2,770 (1,250)	*3,280 (1,480)	1,820 (820)	*2,400 (1,080)	1,340 (600)	*1,900 (860)	1,040 (470)	*1,800 (810)	990 (440)	15'7" (4.75 m)
-2.5' (-0.8 m)	lb (kg)	*4,150 (1,880)	*4,150 (1,880)	*5,060 (2,290)	2,760 (1,250)	*3,310 (1,500)	1,800 (810)	*2,400 (1,080)	1,320 (590)			*1,870 (840)	1,080 (480)	14'6" (4.44 m)
-5' (-1.5 m)	lb (kg)	*6,400 (2,900)	5,840 (2,640)	*4,400 (1,990)	2,790 (1,260)	*2,960 (1,340)	1,810 (820)	*2,050 (920)	1,340 (600)			*1,930 (870)	1,300 (580)	12'9" (3.90 m)
-7.5' (-2.3 m)	lb (kg)	*5,020 (2,270)	*5,020 (2,270)	*2,950 (1,330)	2,880 (1,300)							*1,880 (850)	*1,880 (850)	9'9" (2.98 m)

- Notes:

  - 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.
  - 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.
  - Arm tip defined as lift point.
- The above lifting capacities are in compliance with 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. The excavator bucket weight is not included on this chart. Lifting capacities are for standard arm.
  - 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.



Effective Date		April 1, 2020		KCMU Machine Pricing	
Engine	Make /Model	YANMAR 3TNV88F-E (Tier 4 Compliant)			SK35SR-6E
	Horse Power	23hp {17.2 kW} / 2,400 RPM (SAE NET)			
	Torque	60 lb-ft {81.7 N · m} / 1,440 RPM (SAE NET)			
General	FOPS/ROPS level I canopy design with suspension deat and seat belt. Hydraulic dozer blade, hand control pattern changer, and nibbler/breaker bi-directional auxillary piping (plumbed to the arm). Heavy-duty battery and starting motor (12V - 40 AMP), air cleaner, hydraulic oil filter and travel alarm				
Shipping Dimensions	Overall Length	16' {4,820 mm}			
	Transport Width	5'7" {1,700 mm}			
	Overall Height	8'5" {2,570 mm}			
	Weight Lbs.	Canopy 8,915 lb, Cab 9,255 lb			
Shipping dimensions are based on standard machine configuration					
Code		Base Machine			
SK35SRR	Base Machine with FOPS/ROPS Canopy & 2 way Dozer Blade				
SK35SRC	Base Machine with FOPS/ROPS Cab w Heater/Air Conditioning & 2 way Dozer Blade				
Track Shoes					
2-13	Rubber Tracks				
2-14	Steel Tracks				
Excavator Boom					
3-01	Standard Boom				
Excavator Arm					
4-05	Long Arm 5'6" (1.67 m) with thumb bracket and bucket Cylinder (additional counterweight included)				
6-15	Color Monitor				
5-05	4 Way Angle Dozer Blade (hydraulically controlled)				
5-27	Boom and Arm load locking valve				
7-30	Front Guard (Canopy Only)				
7-32	Front Guard (Cab Only)				
7-33	Top Guard (Cab Only)				
Items other than KCMU standard may require longer delivery time. Consult KCMU for availability and delivery of optioned equipment. Consult Sales Support for pricing questions.					



Effective Date      **April 1, 2020**

KCMU Machine Pricing

SK35SR-6E

### Attachments (Drop Shipped to the Dealer)

MC05-3	Tag Manual Pin Grabber Quick Coupler
1205MX2-4035	Tag 12" Pin On Bucket
1805MX2-4035	Tag 18" Pin On Bucket
2405MX2-4035	Tag 24" Pin On Bucket
HT05-4035-DR	Tag Main Pin Hydraulic Thumb and Hose Kit
QC27W-4035	Wain Roy Style Manual Quick Coupler
1227Q2	Tag 12" QC Bucket
1827Q2	Tag 18" QC Bucket
2427Q2	Tag 24" QC Bucket
3027Q2	Tag 30" QC Bucket
214-0520A	Tag Main Pin Hydraulic Thumb and Hose Kit
1MNHD12	WB 12" Heavy Duty Pin On Bucket
1MNHD18	WB 18" Heavy Duty Pin On Bucket
1MNHD24	WB 24" Heavy Duty Pin On Bucket
1MNHD36	WB 36" Heavy Duty Pin On Bucket
SLQT-1MN	WB Pin Grabber Coupler
HD035-38-5255	WB Hydraulic D-Lock Coupler
EZG1MN-2H	WB Main Pin Thumb and hose kit

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April 1, 2020