

COMPACT EXCAVATORS

1300 GATE KEEPER / 275A-3 / 303A-3 / 303B-3 / 303C-3

OPERATING WEIGHT

3,240 TO 10,275 LBS

HORSEPOWER

11.9 TO 40.8 SAE NET

MAX DIGGING DEPTH

6'11" TO 11'11"

BUCKET CAPACITY

.78 TO 9.8 CU FT

BUCKET BREAKOUT FORCE (SAE)

2,593 TO 11,128 LB

KOBELCO®



**KOBELCO IS THE EXCAVATOR SPECIALIST.
WE MAKE EXCAVATORS FOR EVERY JOB,
LARGE AND SMALL, AND WE SUPPORT OUR
PRODUCTS THROUGH AN EXPERIENCED
DEALER NETWORK THAT IS COMMITTED
TO TROUBLE-FREE PERFORMANCE AND
MAXIMUM CUSTOMER PRODUCTIVITY.**



OUR POWERFUL EXCAVATORS DO THE JOB RIGHT » Sophisticated hydraulic systems deliver precise handling and fast cycle times with smooth operation. Fuel-efficient engines support innovative designs for outstanding maneuverability, digging power, and stability. Ergonomically designed cabs and platforms keep operators comfortable, alert, and in control.



« The unique design of the SR Series compacts is ideally suited for congested urban environments.

» Track width of the 13SR Gate Keeper hydraulically narrows from 47" to 35" to fit through tight passageways.



ZERO TAIL SWING – GET CLOSE WITHOUT WORRY » These compact excavators are designed to work in close quarters. Trees, foundations, walls, urban crowding — no problem! Every one of our compact machines has zero tail swing. The counterweight never extends beyond the track width, even when the upper structure swings 360°, and a center-mounted swing boom offers superior flexibility. The result is amazing maneuverability without sacrificing stability. Fast cycle times, smooth operation, and powerful digging deliver increased productivity.

» Controls are ergonomically designed for smooth, easy use.



» Newly designed hydraulics and dozer blades combined with high-capacity engines get the job done quickly.



COMFORT YIELDS PRODUCTIVITY » With or without cabs, our new compact excavators offer roomier work spaces, improved visibility, and unobstructed access to ergonomically designed controls. The rugged new three-post ROPS/FOPS-certified canopy makes it easy to get on board and get to work. Heat is standard with the easy-access cab, and air conditioning is a factory option. Serviceability is great, too. All daily checks can be performed from ground level, and rear and right side panels open wide for routine checks and quick service. The fuel tank is easy to fill, with a handy fuel level indicator near the fill spout.

» The zero tail swing radius enhances safety, while a low center of gravity provides excellent stability.

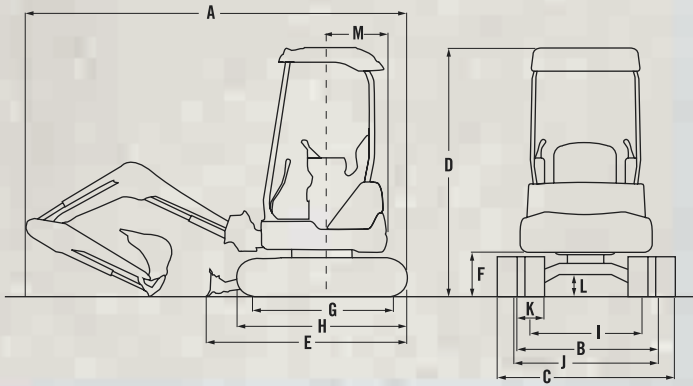


« Hinged panels open wide to simplify access for routine checks and maintenance.

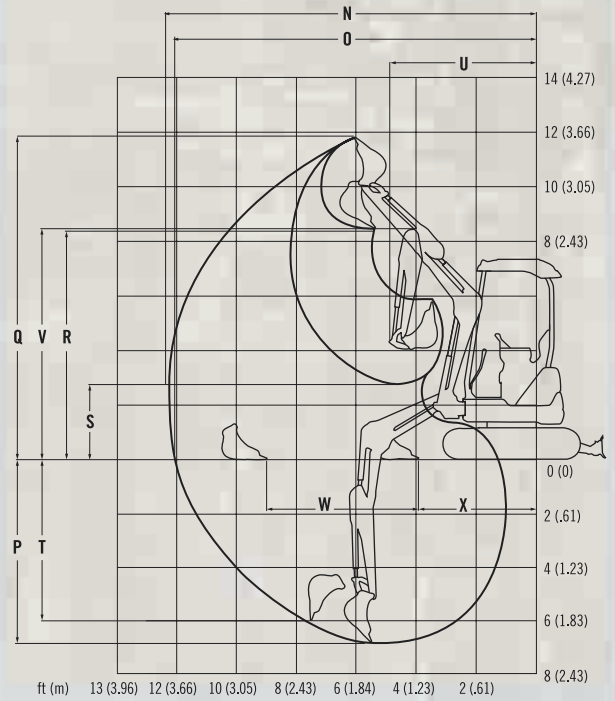


BUILT TOUGH » These SR Series machines may be compact, but they have plenty of power. The arm is attached to a steel-reinforced boom with self-locking pins for greater strength and flexibility. Our compact excavators handle dozing operations smoothly and efficiently, even on the roughest terrain, with a newly designed dozer blade that rolls the earth forward with one efficient pass. They also feature button-controlled two-speed travel, with auto downshift, a best-in-class approach angle for easy trailering, and standard auxiliary hydraulics.

DIMENSIONS



WORKING RANGES



DIMENSIONS & WORKING RANGES

DIMENSIONS

	13SR	27SR-3	30SR-3	35SR-3	50SR-3
ARM LENGTH	3'4" (1.02 m)	3'8" (1.12 m)	3'10" (1.18 m)	4'4" (1.32 m)	5'1" (1.56 m)
A. Overall length	10'11" (3.34 m)	13'7" (4.13 m)	14'5" (4.39 m)	15'5" (4.71 m)	17'2" (5.23 m)
B. Overall width (collapsed)	2'11" (0.89 m)	4'11" (1.5 m)	5'1" (1.55 m)	5'7" (1.70 m)	6'5" (1.96 m)
C. Overall width (expanded)	3'11" (1.2 m)				
D. Overall height (canopy)*	7'3" (2.5 m)	8'2" (2.5 m)	8'5" (2.57 m)	8'5" (2.57 m)	8'6" (2.60 m)
E. Base machine length	6'0" (1.82 m)	7'11" (2.41 m)	8'4" (2.55 m)	8'10" (2.68 m)	9'7" (2.91 m)
F. Ground clearance of rear end*	1'5" (0.43 m)	1'8" (0.52 m)	1'10" (0.57 m)	1'10" (0.57 m)	2'1" (0.635 m)
G. Center distance of tumbler	4.0" (1.21 m)	5.3" (1.59 m)	5.1" (1.54 m)	5'7" (1.70 m)	6'6" (1.97 m)
H. Overall length of crawler	5'1" (1.56 m)	6'6" (1.98 m)	6'7" (2.00 m)	7'1" (2.15 m)	8'2" (2.48 m)
I. Track gauge (collapsed)	2'2" (0.66 m)	4'1" (1.25 m)	4'1" (1.25 m)	4'7" (1.40 m)	5'1" (1.56 m)
J. Track gauge (expanded)	3'2" (0.97 m)				
K. Width of crawler shoe (rubber)	0'9" (0.23 m)	0'10" (0.25 m)	1'0" (0.30 m)	1'0" (0.30 m)	1'4" (0.40 m)
L. Ground clearance of undercarriage*	0'7" (0.18 m)	0'10" (0.25 m)	1'1" (0.33 m)	1'1" (0.33 m)	1'2" (0.345 m)
M. Tail Swing radius	1'11" (0.58 m)	2'6" (0.75 m)	2'7" (0.775 m)	2'9" (0.85 m)	3'3" (0.98 m)
Tail Swing overhang (not shown)	0" (0 m)	0" (0 m)	0'0" (0 m)	0'0" (0 m)	0'0" (0 m)

*Excludes height of grouser bar

WORKING RANGES

	13SR	27SR-3	30SR-3	35SR-3	50SR-3
ARM LENGTH	3'4" (1.02 m)	3'8" (1.12 m)	3'10" (1.18 m)	4'4" (1.32 m)	5'1" (1.56 m)
N. Maximum digging reach	12'4" (3.77 m)	15'3" (4.64 m)	16'2" (4.93 m)	17'2" (5.24 m)	19'4" (5.89 m)
O. Maximum digging reach at ground level	12'1" (3.68 m)	14'10" (4.51 m)	15'8" (4.78 m)	16'9" (5.11 m)	18'10" (5.75 m)
P. Maximum digging depth*	6'11" (2.11 m)	8'4" (2.54 m)	9'3" (2.81 m)	10'1" (3.08 m)	11'9" (3.59 m)
Q. Maximum digging height*	11'11" (3.63 m)	14'8" (4.47 m)	15'8" (4.77 m)	16'4" (4.98 m)	18'7" (5.67 m)
R. Maximum dumping clearance*	8'5" (2.56 m)	10'5" (3.17 m)	11'0" (3.36 m)	11'9" (3.58 m)	13'5" (4.09 m)
S. Minimum dumping clearance*	2'8" (0.82 m)	4'1" (1.25 m)	4'6" (1.38 m)	4'8" (1.41 m)	4'11" (1.51 m)
T. Maximum vertical wall digging depth*	5'9" (1.75 m)	7'7" (2.32 m)	7'1" (2.16 m)	7'10" (2.39 m)	9'3" (2.81 m)
U. Minimum front swing radius	4'11" (1.49 m)	6'0" (1.83 m)	6'4" (1.92 m)	6'8" (2.04 m)	7'1" (2.15 m)
V. Height at minimum front swing radius	8'6" (2.59 m)	10'10" (3.31 m)	11'9" (3.58 m)	12'5" (3.78 m)	14'1" (4.29 m)
W. Horizontal digging stroke at ground level	5'7" (1.71 m)	6'6" (1.99 m)	6'11" (2.11 m)	7'9" (2.37 m)	9'1" (2.76 m)
X. Horizontal digging minimum at ground level	3'9" (1.14 m)	4'11" (1.51 m)	5'4" (1.62 m)	5'6" (1.67 m)	5'10" (1.78 m)

*Excludes height of grouser bar

13SR

SPECIFICATIONS

GENERAL

Operating weight	Cab: lbs (kg)	Not Available as Option
	Canopy: lbs (kg)	3,240 (1,470)
Bucket capacity range	cu. ft. (m ³)	0.78 - 1.30 (.02 - .036)
Arm length	ft. in. (m)	3'4" (1.02)

ENGINE

Manufacturer & model		YANMAR - 3TNE68-YB
Type		Water cooled, 4 cycle, 3 cylinder, swirl chamber diesel engine w/overhead valves
Power output @ rpm	SAE Net hp (kW)	11.9 (8.874)
Displacement	in ³ (l)	47.84 (.784)
Fuel tank capacity	gal (l)	4.0 (15)
Electrical system	volts	12 V

HYDRAULIC SYSTEM

Pumps	Number & type	3 fixed displacement gear-type pumps
Maximum pump output	gpm (lpm)	2 x 3.9 (14.8) + 1.6 (6)
Auxiliary hydraulics output	gpm (lpm)	3.9 (14.8)
Main relief pressure	psi (MPa)	2,988 (20.6)
Capacity of hydraulic system	gal. (l)	4.5 (17)
Capacity of hydraulic reservoir	gal. (l)	2.99 (11.3)

BREAKOUT FORCES

Arm breakout force SAE	lbf (kN)	1,933 (8.6)
Arm breakout force ISO	lbf (kN)	1,972 (8.8)
Bucket breakout force SAE	lbf (kN)	2,593 (11.5)
Bucket breakout force ISO	lbf (kN)	2,881 (12.8)

DOZER BLADE

Width x height	in (mm)	-
Blade movement-up & down	in (mm)	-

UNDERCARRIAGE

Travel speed, fwd.	mph(km/h)	2.3/1.2 (3.7/2.0)
Drawbar pull	lbs (kN)	4,160 (18.5)
Crawler shoe width	in (mm)	0.9" (.23)
Ground pressure	psi(kPa)	3.21 (22.1)
Gradeability	degrees (%)	58 (30)

SWING

Swing speed	rpm	10.7
Swing torque	ft-lb (k.Nm)	-

BASE AND OPTIONAL EQUIPMENT

BASE EQUIPMENT

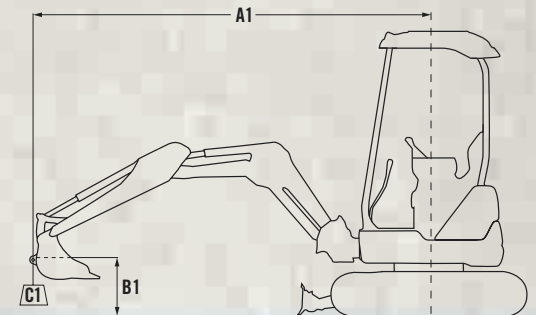
- Yanmar, 3TNE68-YB, 4 cycle, 3 cylinder, water cooled, swirl chamber diesel engine with overhead valves (11.9 SAE NET HP @ 2,000 RMP).
- Glow plugs.
- Two main hydraulic pumps: Fixed gear, 3.9 GPM.
- Pilot pump: Fixed gear, 1.6 GPM.
- Two-speed travel 1.2 / 2.3 MPH.
- Undercarriage width - 35" retracted; 47" expanded.
- Full hydrostatic drive system (2 axial piston motors).
- Track tension adjustment (grease type).
- 12V electrical starting system includes: Heavy-duty battery and starting motor (12V - 20 AMP).
- Air cleaner (dry type), hydraulic oil filter.
- Two lever control for boom, arm, bucket and swing; pilot operated wrist controls and foot pedals.
- Fuel tank: 4.0 gallons.
- ROPS/FOPS: four post canopy design with seat belt.
- Hydraulic dozer blade.

- Swing lock.
- Display includes: engine oil pressure, water temperature lamp, air filter lamp, water separator detection lamp, low fuel warning lamp, battery charge lamp, glow plug indicator lamp, water temperature gauge, fuel gauge, hour meter
- Hinged engine cover
- Sealed and lubricated track rollers.
- Horn
- Hand control pattern changer - ISO - BHL
- Nibbler and breaker auxiliary valve and piping
- Wrist rests

OPTIONAL EQUIPMENT

- 11.8" steel tracks
- Travel alarm
- 0.78 - 1.3 cu ft buckets
- Additional attachments available

LIFTING CAPACITY DIAGRAM



LIFTING CAPACITY

B1	A1	C1	2.5'	(0.8 m)	5'	(1.5 m)	7.5'	(2.3 m)	10'	(3.0 m)	12.5'	(3.8 m)
10'	(3.0 m)	lb										
		kg										
7.5'	(2.3 m)	lb					*500	*500				
		kg					*220	*220				
5'	(1.5 m)	lb					*610	600	*570	360		
		kg					*270	270	*260	160		
2.5'	(0.8 m)	lb			*1,740	1,070	*870	560	*640	340		
		kg			*790	480	*390	250	*290	150		
Ground level		lb	*1,130	*1,130	*2,150	990	*1,050	520	*680	330		
		kg	*510	*510	*970	450	*470	230	*310	150		
-2.5'	(-0.8 m)	lb	*1,860	*1,860	*1,870	1,000	*1,000	510				
		kg	*840	*840	*850	450	*450	230				
-5'	(-1.5 m)	lb			*1,040	1,030						
		kg			*470	470						

Equipped with: standard monoboom, 3'4" (1.02 m) arm, 1.41 cu. ft. (.04 m³) bucket weighing 73 lb. (33 kg) rubber tracks, dozer blade down

1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. Lifting capacities are based on machine standing on level, firm and uniform ground.
3. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, experience of personnel, etc.
4. Ratings at bucket lift hook.
5. The above rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Rating Standard J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
6. Rated loads are marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
7. Operator should be fully acquainted with the operator's and Maintenance Instructions before operating this machine and rules for safe operation of equipment should be adhered to at all times.
8. Capacities apply to only machine as originally manufactured and normally equipped by KOBELCO Construction Machinery America LLC.

27SR-3

SPECIFICATIONS

GENERAL

Operating weight	Cab: lbs (kg)	5,976 (2,710)
	Canopy: lbs (kg)	5,557(2,520)
Bucket capacity	cu. ft. (m ³)	2.8 (.08)
Bucket width with side cutters	in. (mm)	20 (500)
Arm length	ft. in. (m)	3'8" (1.12)

ENGINE

Manufacturer & model		YANMAR - 3TNV82A-SYB
Type		Water-cooled, 4 cycle, 3 cylinder, direct-injection, diesel
Power output @ rpm	SAE Net hp (kW)	21.3 (15.9) @ 2,200
Displacement	in ³ (l)	81.2 (1.330)
Fuel tank capacity	gal (l)	7.4 (28)
Electrical system	volts	D.C. 12 V

HYDRAULIC SYSTEM

Pumps	Number & type	Two variable displacement piston pumps and two fixed displacement gear pumps
Maximum pump output	gpm (lpm)	2 x 7.0 (26.4) + 3.8 (14.3) + 3.0 (11.2)
Auxiliary hydraulics output	gpm (lpm)	10.8 (40.9)
Main relief pressure	psi (MPa)	3,336 (23.0)
Capacity of hydraulic system	gal (l)	6.6 (25)
Capacity of hydraulic reservoir	gal (l)	5.3 (20)

BREAKOUT FORCES

Arm breakout force SAE	lbf (kN)	3,321 (14.760)
Arm breakout force ISO	lbf (kN)	3,422 (15.208)
Bucket breakout force SAE	lbf (kN)	6,351 (28.1)*
Bucket breakout force ISO	lbf (kN)	6,510 (29)

DOZER BLADE

Width x height	in (mm)	59" (1,500) x 11.8" (300)
Blade movement-up & down	in (mm)	17.5" (445) height x 13.2" (335) depth

UNDERCARRIAGE

Travel speed, fwd.	mph (km/h)	2.5/1.43 (4.1/2.3)
Drawbar pull	lbs (kN)	6,368 (28.3)
Crawler shoe width	in (mm)	9.8" (250)
Ground pressure	psi (kPa)	4.06 (28)
Gradeability	degrees (%)	30 (58)

SWING

Swing speed	rpm	8.7
Swing torque	ft-lb (k.Nm)	442.5 (0.6)

*2-pin bucket

BASE AND OPTIONAL EQUIPMENT

BASE EQUIPMENT

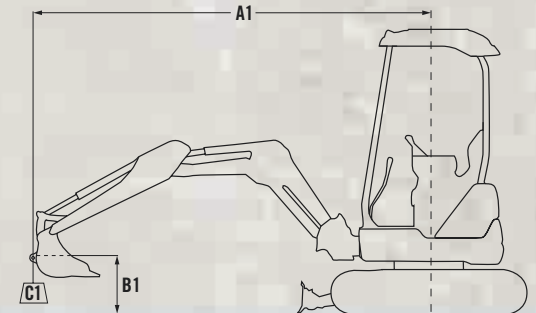
- Yanmar, 3TNV82A-SYB, 4 cycle, 3 cylinder, water cooled, direct injection diesel engine (21.3 SAE HP @ 2,200 RPM).
- Glow plugs.
- Two main hydraulic pumps: Variable displacement piston pump, 7 GPM.
- One dozer/slew pump: Fixed gear, 3.7 GPM.
- Pilot pump: Fixed gear
- Two speed travel (1.4/2.5 MPH).
- One touch decel.
- Fully hydrostatic drive system (2 axial piston motors).
- Track tension adjustment (grease type).
- 12V electrical starting system includes: Heavy-duty battery and starting motor (12V - 40 AMP).
- Air cleaner (dry type), hydraulic oil filter.
- Swing brake: disc type, spring applied and hydraulically released.
- Tilt up control panel with two lever control for boom, arm, bucket and swing; pilot operated wrist controls and foot pedals.
- Fuel tank: 7.4 gallons.

- ROPS/FOPS canopy design with seat belt.
- Display includes: engine oil pressure, water temperature lamp, air filter lamp, water separator detection lamp, low fuel warning lamp, battery charge lamp, glow plug indicator lamp, water temperature gauge, fuel gauge, hour meter.
- Hydraulic dozer blade.
- Hinged engine cover.
- Swing out side panel for easy maintenance access.
- Swing shockless valve.
- Sealed and lubricated track rollers.
- Large capacity hydraulic oil cooler.
- Horn.
- Hand control pattern changer - ISO - BHL
- 1 or 2 way auxiliary valve, controls and piping.

OPTIONAL EQUIPMENT

- Cab with heat
- 11.8" steel tracks
- 1.40 - 3.00 cu ft buckets
- Travel alarm
- Additional attachments available

LIFTING CAPACITY DIAGRAM



LIFTING CAPACITY

B1	A1	C1	2.5' (0.8 m)		5' (1.5 m)		7.5' (2.3 m)		10' (3.0 m)		12.5' (3.8 m)	
			Hook	Pin	Hook	Pin	Hook	Pin	Hook	Pin	Hook	Pin
10' (3.0 m)	lb	kg							*920	*920		
									*410	*410		
7.5' (2.3 m)	lb	kg							*970	*970		
									*440	*440		
5' (1.5 m)	lb	kg					*1,600	*1,600	*1,180	1,030	*1,020	720
							*720	*720	*530	460	*460	320
2.5' (0.8 m)	lb	kg					*2,230	1,500	*1,420	980	*1,100	690
							*1,010	680	*640	440	*500	310
Ground level	lb	kg			*2,250	*2,250	*2,450	1,440	*1,560	940	*1,130	680
					*1,020	*1,020	*1,110	650	*710	420	*510	310
-2.5' (-0.8 m)	lb	kg			*3,860	2,890	*2,300	1,440	*1,500	940		
					*1,750	1,310	*1,040	650	*680	420		
-5' (-1.5 m)	lb	kg			*2,980	2,960	*1,760	1,480				
					*1,350	1,340	*800	670				

Equipped with: standard monoboom, 3'8" (1.12 m) arm, 2.8 cu. ft. (.08 m³) bucket weighing 101 lb. (46 kg) rubber tracks, dozer blade down, and optional counterweight

1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. Lifting capacities are based on machine standing on level, firm and uniform ground.
3. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, experience of personnel, etc.
4. Ratings at bucket lift hook.
5. The above rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Rating Standard J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
6. Rated loads are marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
7. Operator should be fully acquainted with the operator's and Maintenance Instructions before operating this machine and rules for safe operation of equipment should be adhered to at all times.
8. Capacities apply to only machine as originally manufactured and normally equipped by KOBELCO Construction Machinery America LLC.

30SR-3

SPECIFICATIONS

GENERAL

Operating weight	Cab: lbs (kg)	7,100 (3,220)
	Canopy: lbs (kg)	6,680 (3,030)
Bucket capacity	cu. ft. (m ³)	3.2 (.09)
Bucket width w/side cutters	in. (mm)	20" (500)
Arm length	ft. in. (m)	3'10" (1.18)

ENGINE

Manufacturer & model		YANMAR - 3TNV88-PYB
Type		Water-cooled, 4 cycle, 3 cylinder, direct-injection diesel
Power output @ rpm	SAE Net hp (kW)	28.4 (21.2) @ 2,400
Displacement	in ³ (l)	100.2 (1.642)
Fuel tank capacity	gal (l)	10 (38)
Electrical system	volts	D.C. 12 V

HYDRAULIC SYSTEM

Pumps	Number & type	Two variable displacement piston pumps and two fixed displacement gear pumps
Maximum pump output	gpm (lpm)	2 x 7 (26.4) + 5.4 (20.6) + 3.2 (12.2)
Auxiliary hydraulics output	gpm (lpm)	15.5 (58.7)
Main relief pressure	psi (MPa)	3,336 (23)
Capacity of hydraulic system	gal. (l)	12.7 (48)
Capacity of hydraulic reservoir	gal. (l)	10 (38)

BREAKOUT FORCES

Arm breakout force SAE	lbf (kN)	3,832 (17.032)
Arm breakout force ISO	lbf (kN)	3,949 (17.550)
Bucket breakout force SAE	lbf (kN)	8,430 (37.5)*
Bucket breakout force ISO	lbf (kN)	8,654 (38.5)

DOZER BLADE

Width x height	in (mm)	61" (1,550) x 13.6" (345)
Blade movement-up & down	in (mm)	22" (560) height x 16" (410) depth

UNDERCARRIAGE

Travel speed, fwd.	mph (km/h)	2.8/1.6 (4.5/2.5)
Drawbar pull	lbs (kN)	8,663 (38.5)
Crawler shoe width	in (mm)	11.8" (300)
Ground pressure	psi (kPa)	4.2 (29)
Gradeability	degrees (%)	30 (58)

SWING

Swing speed	rpm	8.9
Swing torque	ft-lb (k.Nm)	752 (1.02)

*2-pin bucket

BASE AND OPTIONAL EQUIPMENT

BASE EQUIPMENT

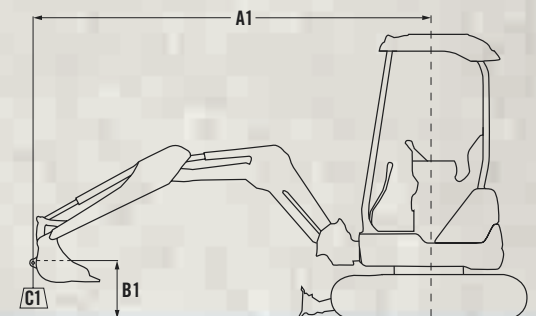
- Yanmar, 3TNE788-PYB, 4 cycle, 3 cylinder, water cooled, direct injection diesel engine with overhead valves (22.7 SAE HP @ 2,300 RPM).
- Glow plugs.
- Two main hydraulic pumps: Variable displacement piston pump, 10.1 GPM.
- One dozer/slew pump: Fixed gear, 5.4 GPM.
- Pilot pump: Fixed gear
- Two speed travel (1.6/2.8 MPH).
- One touch decel.
- Fully hydrostatic drive system (2 axial piston motors).
- Track tension adjustment (grease type).
- 12V electrical starting system includes: Heavy-duty battery and starting motor (12V - 40 AMP).
- Air cleaner (dry type), hydraulic oil filter.
- Swing brake: disc type, spring applied and hydraulically released.
- Tilt up control panel with two lever control for boom, arm, bucket and swing; pilot operated wrist controls and foot pedals.

- Fuel tank: 10 gallons.
- ROPS/FOPS: canopy design with seat belt.
- Display includes: engine oil pressure, water temperature lamp, air filter lamp, water separator detection lamp, low fuel warning lamp, battery charge lamp, glow plug indicator lamp, water temperature gauge, fuel gauge, hour meter.
- Hydraulic dozer blade.
- Hinged engine cover.
- Swing shockless valve.
- Sealed and lubricated track rollers.
- Large capacity hydraulic oil cooler.
- Horn.
- Hand control pattern changer - ISO - BHL
- 1 or 2 way auxiliary valve, controls and piping.

OPTIONAL EQUIPMENT

- Cab with heat and/or AC
- 11.8" steel tracks
- 2.13 - 4.25 cu ft buckets
- Travel Alarm
- Additional attachments available

LIFTING CAPACITY DIAGRAM



LIFTING CAPACITY

B1	A1	C1	2.5'	(0.8 m)	5'	(1.5 m)	7.5'	(2.3 m)	10'	(3.0 m)	12.5'	(3.8 m)
10'	(3.0 m)	lb							*1,210	*1,210		
		kg							*550	*550		
7.5'	(2.3 m)	lb							*1,440	1,330	*1,410	900
		kg							*650	600	*640	410
5'	(1.5 m)	lb					*2,720	1,970	*1,880	1,260	*1,580	870
		kg					*1,230	890	*850	570	*710	390
2.5'	(0.8 m)	lb					*3,810	1,800	*2,340	1,180	*1,780	840
		kg					*1,730	820	*1,060	530	*810	380
Ground level		lb			*2,540	*2,540	*4,150	1,750	*2,610	1,130	*1,910	810
		kg			*1,150	*1,150	*1,880	790	*1,180	510	*860	370
-2.5'	(-0.8 m)	lb			*4,170	3,540	*3,960	1,750	*2,590	1,120		
		kg			*1,890	1,600	*1,790	790	*1,170	510		
-5'	(-1.5 m)	lb			*5,820	3,620	*3,290	1,790	*2,130	1,150		
		kg			*2,640	1,640	*1,490	810	*960	520		

Equipped with: standard monoboom, 3'10" (1.18 m) arm, 3.2 cu. ft. (.09 m³) bucket weighing 185 lb. (84 kg) rubber tracks, dozer blade down, and optional counterweight

1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. Lifting capacities are based on machine standing on level, firm and uniform ground.
3. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, experience of personnel, etc.
4. Ratings at bucket lift hook.
5. The above rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Rating Standard J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
6. Rated loads are marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
7. Operator should be fully acquainted with the operator's and Maintenance Instructions before operating this machine and rules for safe operation of equipment should be adhered to at all times.
8. Capacities apply to only machine as originally manufactured and normally equipped by KOBELCO Construction Machinery America LLC.

35SR-3

SPECIFICATIONS

GENERAL

Operating weight	Cab: lbs (kg)	8,380 (3,800)
	Canopy: lbs (kg)	7,960 (3,610)
Bucket capacity	cu. ft. (m ³)	3.2 (.09)
Bucket width with side cutters	in. (mm)	23.6" (600)
Arm length	ft. in. (m)	4'4" (1.32)

ENGINE

Manufacturer & model		YANMAR - 3TNV88-PYB
Type		Water-cooled, 4 cycle, 3 cylinder, direct injection diesel
Power output @ rpm	SAE Net hp (kW)	28.4 (21.2) @ 2,400
Displacement	in ³ (l)	100.2 (1.642)
Fuel tank capacity	gal (l)	10 (38)
Electrical system	volts	D.C. 12 V

HYDRAULIC SYSTEM

Pumps	Number & type	Two variable displacement piston pumps and two fixed displacement gear pumps
Maximum pump output	gpm (lpm)	2 x 10 (38.4) + 5.4 (20.6) + 3.2 (12.2)
Auxiliary hydraulics output	gpm (lpm)	15.5 (58.7)
Main relief pressure	psi (MPa)	3,336 (23)
Capacity of hydraulic system	gal. (l)	12.7 (48)
Capacity of hydraulic reservoir	gal. (l)	10 (38)

BREAKOUT FORCES

Arm breakout force SAE	lbf (kN)	4,180 (18.576)
Arm breakout force ISO	lbf (kN)	4,294 (19.086)
Bucket breakout force SAE	lbf (kN)	8,430 (37.5)*
Bucket breakout force ISO	lbf (kN)	8,654 (38.5)

DOZER BLADE

Width x height	in (mm)	66.9" (1,700) x 13.6" (345)
Blade movement-up & down	in (mm)	21.3" (540) height x 21.3" (440) depth

UNDERCARRIAGE

Travel speed, fwd.	mph(km/h)	2.8/1.6 (4.5/2.5)
Drawbar pull	lbs (kN)	8,587 (38.2)
Crawler shoe width	in (mm)	11.8" (300)
Ground pressure	psi(kPa)	4.7 (32)
Gradeability	degrees (%)	30 (58)

SWING

Swing speed	rpm	8.9
Swing torque	ft-lb (k.Nm)	752 (1.02)

*2-pin bucket

BASE AND OPTIONAL EQUIPMENT

BASE EQUIPMENT

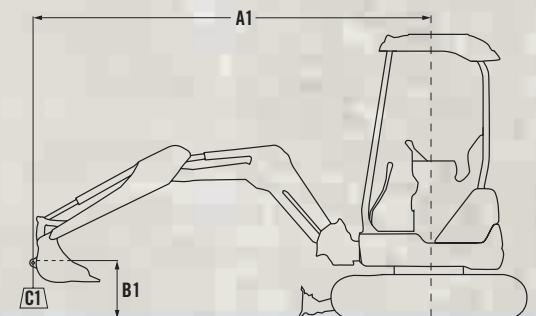
- Yanmar, 3TNV88PYB, 4 cycle, 3 cylinder, water cooled, direct injection diesel engine with overhead valves (28.4 SAE HP @ 2,400 RPM).
- Glow plugs.
- Two main hydraulic pumps: Variable displacement piston pump, 10.1 GPM, 5.4 GPM.
- One dozer/slew pump: Fixed gear, 5.4 GPM.
- Pilot pump: Fixed gear
- Two speed travel (1.6/2.8 MPH).
- One touch decel.
- Fully hydrostatic drive system (2 axial piston motors).
- Track tension adjustment (grease type).
- 12V electrical starting system includes: Heavy-duty battery and starting motor (12V - 40 AMP).
- Air cleaner (dry type), hydraulic oil filter.
- Swing brake: disc type, spring applied and hydraulically released.
- Tilt up control panel with two lever control for boom, arm, bucket and swing; pilot operated wrist controls and foot pedals.

- Fuel tank: 10 gallons.
- ROPS/FOPS canopy design with seat belt.
- Display includes: engine oil pressure, water temperature lamp, air filter lamp, water separator detection lamp, low fuel warning lamp, battery charge lamp, glow plug indicator lamp, water temperature gauge, fuel gauge, hour meter.
- Hydraulic dozer blade.
- Swing lock.
- Hinged engine cover.
- Swing shockless valve.
- Sealed and lubricated track rollers.
- Large capacity hydraulic oil cooler.
- Horn.
- Hand control pattern changer - ISO - BHL
- 1 or 2 way auxiliary valve, controls and piping.

OPTIONAL EQUIPMENT

- Cab with heat and/or AC
- 11.8" steel tracks
- 2.13 - 6.60 cu ft buckets
- Travel Alarm
- Additional attachments available

LIFTING CAPACITY DIAGRAM



LIFTING CAPACITY

B1	A1	5' (1.5 m)		7.5' (2.3 m)		10' (3.0 m)		12.5' (3.8 m)		15' (4.68 m)	
		C1	C2	C1	C2	C1	C2	C1	C2	C1	C2
10' (3.0 m)	lb							*1,190	*1,190		
	kg							*540	*540		
7.5' (2.3 m)	lb					*1,380	*1,380	*1,280	*1,280		
	kg					*620	*620	*580	*580		
5' (1.5 m)	lb			*2,760	*2,760	*1,830	1,780	*1,480	1,260		
	kg			*1,250	*1,250	*830	810	*670	570		
2.5' (0.8 m)	lb			*3,760	2,580	*2,270	1,690	*1,690	1,210	*1,390	910
	kg			*1,700	1,170	*1,030	760	*760	550	*630	410
Ground level	lb	*2,550	*2,550	*4,020	2,520	*2,520	1,630	*1,820	1,180		
	kg	*1,150	*1,150	*1,820	1,140	*1,140	740	*820	530		
-2.5' (-0.8 m)	lb	*4,080	*4,080	*3,830	2,520	*2,520	1,620	*1,800	1,170		
	kg	*1,850	*1,850	*1,740	1,140	*1,140	730	*810	530		
-5' (-1.5 m)	lb	*5,790	5,340	*3,290	2,560	*2,210	1,640				
	kg	*2,620	2,420	*1,490	1,160	*1,000	740				
-7.5' (-2.3 m)	lb	*3,470	*3,470	*2,110	*2,110						
	kg	*1,570	*1,570	*950	*950						

Equipped with: standard monoboom, 4'4" (1.32 m) arm, 3.9 cu. ft. (1.1 m³) bucket weighing 200 lb. (91 kg) rubber tracks, dozer blade down, and optional counterweight

1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. Lifting capacities are based on machine standing on level, firm and uniform ground.
3. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, experience of personnel, etc.
4. Ratings at bucket lift hook.
5. The above rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Rating Standard J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
6. Rated loads are marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
7. Operator should be fully acquainted with the operator's and Maintenance Instructions before operating this machine and rules for safe operation of equipment should be adhered to at all times.
8. Capacities apply to only machine as originally manufactured and normally equipped by KOBELCO Construction Machinery America LLC.

50SR-3

SPECIFICATIONS

GENERAL

Operating weight	Cab: lbs (kg)	10,695 (4,850)
	Canopy: lbs (kg)	10,275 (4,660)
Bucket capacity	cu. ft. (m ³)	5.65 (.16)
Bucket width with side cutters	in. (mm)	25.6 (650)
Arm length	ft. in. (m)	5'1" (1.56)

ENGINE

Manufacturer & model		YANMAR - 4TNV88-XYB
Type		Water-cooled, 4 cycle, 4 cylinder, direct injection diesel
Power output @ rpm	SAE Net hp (kW)	40.8 (30.4) @ 2,400
Displacement	in ³ (l)	133.6 (2.189)
Fuel tank capacity	gal (l)	14 (53)
Electrical system	volts	D.C. 12 V

HYDRAULIC SYSTEM

Pumps	Number & type	Two variable displacement piston pumps and two fixed displacement gear pumps
Maximum pump output	gpm (lpm)	2 x 15 (57.1) + 8.9 (33.8) + 3.2 (12.2)
Auxiliary hydraulics output	gpm (lpm)	15.1 (57.2)
Main relief pressure	psi (MPa)	3,336 (23)
Capacity of hydraulic system	gal. (l)	16.6 (63)
Capacity of hydraulic reservoir	gal. (l)	11.1 (42)

BREAKOUT FORCES

Arm breakout force SAE	lbf (kN)	5,823 (25.879)
Arm breakout force ISO	lbf (kN)	5,958 (26.482)
Bucket breakout force SAE	lbf (kN)	11,128 (49.5)*
Bucket breakout force ISO	lbf (kN)	11,424 (51)

DOZER BLADE

Width x height	in (mm)	77" (1,960) x 13.6" (345)
Blade movement-up & down	in (mm)	19.5" (495) height x 14.8" (375) depth

UNDERCARRIAGE

Travel speed, fwd.	mph(km/h)	2.9/1.7 (4.6/2.8)
Drawbar pull	lbs (kN)	12,185 (54.2)
Crawler shoe width	in (mm)	15.7" (400)
Ground pressure	psi(kPa)	3.92 (27)
Gradeability	degrees (%)	30 (58)

SWING

Swing speed	rpm	8.8
Swing torque	ft-lb (k.Nm)	966 (1.31)

*2-pin bucket

BASE AND OPTIONAL EQUIPMENT

BASE EQUIPMENT

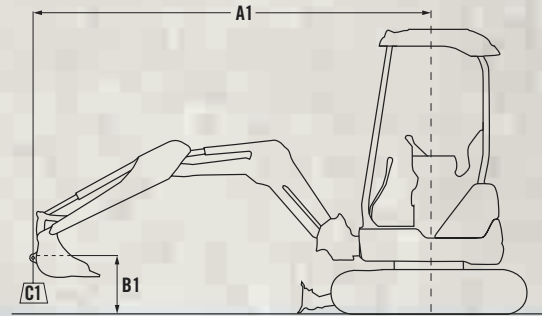
- Yanmar 4TNV88-XYB, 4 cycle, 3 cylinder, water-cooled direct injection diesel engine with overhead valves (40.8 SAE HP @ 2,400 RPM)
- Glow plugs.
- Two main hydraulic pumps: Variable displacement piston pump, 15.1 GPM.
- One dozer/slew pump: Fixed gear, 8.9 GPM.
- Pilot pump: Fixed gear
- Two speed travel (1.6/2.9 MPH).
- One touch decel.
- Fully hydrostatic drive system (2 axial piston motors).
- Track tension adjustment (grease type).
- 12V electrical starting system includes: Heavy-duty battery and starting motor (12V - 40 AMP).
- Air cleaner (dry type), hydraulic oil filter.
- Swing brake: disc type, spring applied and hydraulically released.
- Tilt up control panel with two lever control for boom, arm, bucket and swing; pilot operated wrist controls and foot pedals.

- Fuel tank: 14 gallons.
- ROPS/FOPS: four post canopy design with seat belt.
- Display includes: engine oil pressure, water temperature lamp, air filter lamp, water separator detection lamp, low fuel warning lamp, battery charge lamp, glow plug indicator lamp, water temperature gauge, fuel gauge, hour meter.
- Hydraulic dozer blade.
- Hinged engine cover.
- Swing shockless valve.
- Sealed and lubricated track rollers.
- Large capacity hydraulic oil cooler.
- Horn.
- Hand control pattern changer - ISO - BHL
- 1 or 2 way auxiliary valve, controls and piping.

OPTIONAL EQUIPMENT

- Cab with heat and/or AC
- 11.8" steel tracks
- 3.00 - 9.80 cu ft buckets
- Travel Alarm
- Additional attachments available

LIFTING CAPACITY DIAGRAM



LIFTING CAPACITY

B1	A1	C1	5' (1.5 m)		7.5' (2.3 m)		10' (3.0 m)		12.5' (3.8 m)		15' (4.68 m)	
			lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
12.5' (3.8 m)	lb								*1,930	*1,930		
	kg								*870	*870		
10' (3.0 m)	lb								*2,050	2,000	*2,120	1,450
	kg								*930	910	*960	650
7.5' (2.3 m)	lb					*2,720	*2,720	*2,410	1,940	*2,250	1,420	
	kg					*1,230	*1,230	*1,090	880	*1,020	640	
5' (1.5 m)	lb			*6,180	4,100	*3,750	2,620	*2,900	1,850	*2,490	1,380	
	kg			*2,800	1,860	*1,700	1,190	*1,310	840	*1,130	620	
2.5' (0.8 m)	lb			*4,940	3,810	*4,640	2,470	*3,360	1,770	*2,730	1,330	
	kg			*2,240	1,730	*2,100	1,120	*1,520	800	*1,240	600	
Ground level	lb	*3,330	*3,330	*5,840	3,740	*5,100	2,380	*3,670	1,710	*2,880	1,300	
	kg	*1,510	*1,510	*2,650	1,700	*2,310	1,080	*1,660	770	*1,300	590	
-2.5' (-0.8 m)	lb	*5,220	*5,220	*7,800	3,750	*5,130	2,360	*3,720	1,690	*2,840	1,290	
	kg	*2,370	*2,370	*3,530	1,700	*2,320	1,070	*1,690	760	*1,290	580	
-5' (-1.5 m)	lb	*7,310	*7,310	*6,950	3,800	*4,720	2,380	*3,420	1,700			
	kg	*3,310	*3,310	*3,150	1,720	*2,140	1,080	*1,550	770			
-7.5' (-2.3 m)	lb	*9,340	8,640	*5,370	3,910	*3,670	2,450					
	kg	*4,230	3,920	*2,430	1,770	*1,660	1,110					

Equipped with: standard monoboomb, 3'4" (1.02 m) arm, 1.41 cu. ft. (.04 m³) bucket weighing 73 lb. (33 kg) rubber tracks, dozer blade down, and optional counterweight

1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. Lifting capacities are based on machine standing on level, firm and uniform ground.
3. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, experience of personnel, etc.
4. Ratings at bucket lift hook.
5. The above rated loads are in compliance with SAE Hydraulic Excavator Lift Capacity Rating Standard J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
6. Rated loads are marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
7. Operator should be fully acquainted with the operator's and Maintenance Instructions before operating this machine and rules for safe operation of equipment should be adhered to at all times.
8. Capacities apply to only machine as originally manufactured and normally equipped by KOBELCO Construction Machinery America LLC.

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