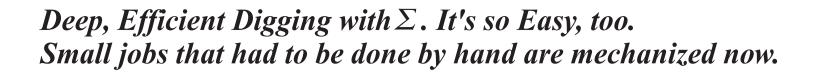




# Yanmar's Unique \( \Sigma\) boomA Breakthrough in the Concept of the Ultra Tight Turning Machine

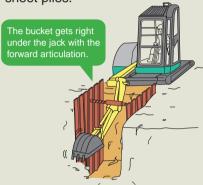
The B7∑ is for users who want to dig deeper and more efficiently.

It is ideal for jobs in restricted urban sites and densely built-up areas. Some suggested usage areas include water, sewage and gas piping work and laying communications cables.



# The Long Third Boom for Deep and Powerful Left Offset Digging

The combination of the unique offset mechanism and far reaching third boom lets you go in deeper even at sites with driven sheet piles.



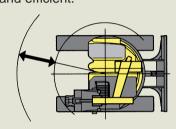
**Neat Earth Leveling on the Truck** 

leveling, making unloading easier, too.

The  $\Sigma$  boom reaches to the corners of the truck for neat

## The Σ boom Turns like Magic in Restricted Sites

The  $\Sigma$  boom machine is so convenient even in restricted pipe laying sites, etc., on roads in urban areas, turning even at the left offset position to get close to the dump truck. Digging, turning and unloading in series is smooth and efficient.



# The Efficiency of not always Worrying about your Bucket. Reliable Interference Prevention

Yanmar original mechanical bucket interference prevention system protects operator from accidents and it increases job efficiency by without caring bucket interference compare to micro-computer bucket interference prevention system.



#### Efficiency and Stability Beyond Your Regular Ultra Tight Turning Machine

Yanmar's unique ViPPS (Hydraulic system) and ViCTAS track systems of the famous Super ViO series give work efficiency and power close to those of standard, non-ultra tight turning machines.



#### Fast and Smooth Multiple job Operation with Yanmar's 3 Pump Hydraulic System

ViPPS has the arm preferential conflux hydraulic circuit. During multiple operation of the boom, arm, bucket and turning, the arm speed is ensured through the preferential flow of hydraulic oil to the arm circuit. The cycle of digging and unloading soil is smooth and efficient.





#### It Grips a Broad Area of Ground for Higher Stability: Yanmar's Balanced Undercarriage.

Yanmar's ViCTAS undercarriage offers better stability without extending the machine width. The track rollers on the tipping line are installed further outwards than in conventional models to improve the sideways balance. The longer crawler ground contact enhances the longitudinal balance, so the ground is gripped well without increasing machine weight. The lifting capacity is boosted, too.



### **High Tensile Steel for Superior Work Stability and Weight Reduction**

The  $\Sigma$  boom is made from high tensile steel, which is about 1.5 times stronger than the ordinary steel. The lower weight and optimum center of gravity produce a stable balance.

#### Friendly to Users and the Environment Comfortable Operation Unique to $B7\Sigma$

#### **Spacious Operator's Area** for Comfortable **Operation**

The operator's space is wider thanks to the  $\sum$  boom.

Both the seat sides and legroom are spacious. The big operator's area makes lengthy work less fatiguing.





Slide-up windshield

Heater air outlet



Arm cylinder on the back of boom is protected from damage



To prevent damage to the hydraulic hoses. They are covered for safety



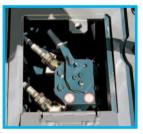
The alarm monitor checks the engine oil, cooling water temp. and battery level. Potential troubles are indicated well in advance.

Side hood housing

the fuel filler port,

battery, hydsraulic

oil, etc.



2-way pattern control lever (ISO or OPTION)



Large opening rear hood facilitates maintenance

YANMAR

ROPS / FOPS Cabin with seat belt protects against operator injury.



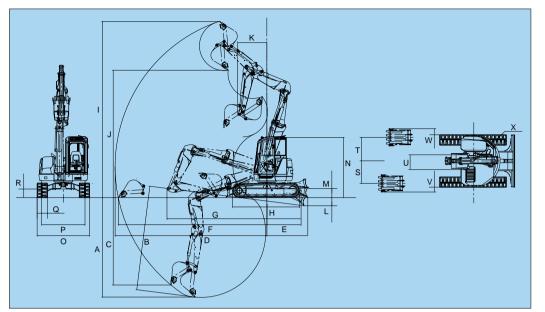
#### Clean & Silent

#### **Yanmar C&S Direct Injection Diesel Engine** Friendly to Users and **Environment**

Clean exhaust and powerful output are compatible in the new engine from Yanmar. It's a clean and silent engine friendly both to users and the environment.



**Super Low Noise Design** The C&S (clean and silent) engines of Yanmar: ultra low noise through advanced noise reduction technology that mitigates stress and fatigue



Di	<b>Dimensions</b> Unit: ft-in (mm)												
	Α	В	С	D	E	F	G	Н	I	J	K	L	М
	4' 3" 1350)	14' 9" (4500)	12' 4" (3770)	21' 6" (6550)	5' 9" (1760)	21' 0" (6410)	19' 0" (5780)	9' 6" (2890)	24' 11" (7600)	18' 0" (5490)	3' 11" (1200)	1' 2" (355)	1' 4" (400)
	N	0	Р	Q	R	S	Т	U	V	W	Х		
8 (2	' 11" 2715)	7' 5" (2260)	6' 2" (1870)	1' 6" (450)	1' 3" (380)	3' 4" (1020)	3' 2" (965)	2' 6" (750)	5" (125)	1' 2" (350)	R 3' 8" (R1130)		

#### **Specifications**

Model				<b>B7</b> ∑-5A					
Туре				Cabin					
	Rubber track		lbs (kg)	17706(8030)					
Operating weight (ISO)	Steel track		lbs (kg)	17816(8080)					
Engine	Туре			Water cooled, 4-cyl. diesel					
	Model			4TNV98-XBV					
	Output	h	p (kW)/RPM	58.2 (43.4) /2000					
Performance	Digging force (ar	m/bucket)	lb (kN)	8655/12320 (38.5/54.8)					
	Traveling speed	Rubber	mph (km/h)	2.9/1.7 (4.7/2.7)					
		Steel	mph (km/h)	2.8/1.6 (4.5/2.5)					
	Average ground	Rubber	psi (kPa)	5.06 (34.9)					
	pressure	Steel	psi (kPa)	5.12 (35.3)					
Hydraulic	Pump displacem	ent	GPM	18.6x2+17.6x1					
system			(L / min)	70.3x2+66.7x1					
	Set pressure		psi (Mpa)	3550x2,3000 (24.5x2,20.6)					
	Hydraulic systen	n capacity	USgal (L)	26.4 (100)					
Undercarriage	Shoe width		ft-in (mm)	1'6"(450)					
	Blade widthxheig	ght	ft-in (mm)	7'5"x1'5"(2260x435)					
Various data	Fuel tank capaci	ty	USgal (L)	26.4 (100)					
	Noise level (ISO	: LwA)	dB(A)	92					

#### Hydraulic P.T.O.

Output	PSI(kPa)	GPM (L/min)		
Specifications	rSi(Kra)	1900 RPM		
Single / Double actions	3556 (24517)	18.6 (70.3)		



#### **LIFTING CAPACITY**

Excavator equipped with ROPS/FOPS Cabin and Rubber Crawlers

r: Reach from swing center line: ft-in(mm)

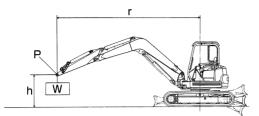
h: Lift point height : ft-in(mm)

w: Lifting capacity: lbs(kg)

P: Load point

: Rated over the front end Rated over

the side



- 1. The Rated Lifting Capacities that are indicated below are based on ISO 10567 and do not exceed 87% of the Excavator's hydraulic lifting capacity or 75% of its static tilt load (tipping load) capacity.
- 2. The following operating criteria are also applicable to the calculation of these maximum loads;
- a) The "load point" is the location of the front bolt on the arm.
- b) The three indicated machine positions are :
- (i) arm over the front end (blade down), (ii) arm over the front end (blade up), and
- (iii) arm over the side (blade up).
- c) The operating cylinder is the Boom Cylinder.
- 3. The weight of the Excavator's bucket, hook, sling and other lifting accessories have been taken into consideration when calculating these maximum loads.

LIFT POINT HEIGHT		r: LIFT RADI	US - in (mm)	)	r: LIFT RADIUS - in (mm)			r: LIFT RADIUS - in (mm)				
h: in (mm)	RATED LIFT CAPACITY OVER END BLADE DOWN lbs (kg)				RATED LIFT CAPACITY OVER END BLADE UP lbs (kg)				RATED LIFT CAPACITY OVER SIDE BLADE UP lbs (kg)			
	MAX	196.9 (5000)	137.8 (3500)	98.4 (2500)	MAX	196.9 (5000)	137.8 (3500)	98.4 (2500)	MAX	196.9 (5000)	137.8 (3500)	98.4 (2500)
195.9(5000)	*4653(2110)		*4873(2210)		3870(1755)		*4873(2210)		3848(1745)		*4873(2210)	
157.5(4000)	*4564(2070)		*5160(2340)		3076(1395)		*5160(2340)		2944(1335)		*5160(2340)	
118.1(3000)	*4454(2020)		*5755(2610)		2547(1155)		4796(2175)		2437(1105)		4862(2205)	
78.7(2000)	*4366(1980)	*4719(2140)	*6350(2880)	*9129(4140)	2238(1015)	2635(1195)	4642(2105)	7596(3445)	2150(975)	2547(1155)	4443(2015)	7552(3425)
39.4(1000)	*4300(1950)	*4785(2170)	*7012(3180)	*9018(4090)	2128(965)	2481(1125)	4201(1905)	6538(2965)	2084(945)	2414(1095)	4024(1825)	6229(2825)
Ground(0)	*4278(1940)		*6637(3010)	*8644(3920)	2194(995)		3958(1795)	6538(2965)	2128(965)		3782(1715)	6207(2815)
-39.4(-1000)	*4145(1880)		*6196(2810)	*7982(3620)	2326(1055)		3804(1725)	6802(3085)	2238(1015)		3649(1655)	6185(2805)
-78.7(-2000)	*3925(1780)		*5204(2360)	*6218(2820)	2745(1245)		3804(1725)	*6218(2820)	2679(1215)		3782(1715)	*6218(2820)

Note: The maximum loads marked with an asterisk (\*) were limited by the Excavator's hydraulic lifting capacity rather than by its static tilt load (tipping load) capacity.

#### **STANDARD EQUIPMENT**

- Blade
- · Joystick pilot controls
- Arm rests
- Reclining seat
- Seat belt
- ROPS/FOPS cabin
- Windshield wiper
- Defroster
- Traveling lever
- Rubber or steel crawler tracks PTO arm end piping
- Traveling alarm function
- 2 way operation pattern change
- Built-in type boom light
- Exterior cabin work light
- Operation manual

(Please note that the standard equipment supplied with a specific Excavator could vary from this list. Consult your Yanmar dealer for confirmation.)

Note: All information presented in this Brochure is subject to change without notice.

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