YANMAR
MINI EXCAVATOR
Universal

ViO45-5 ViO55-5

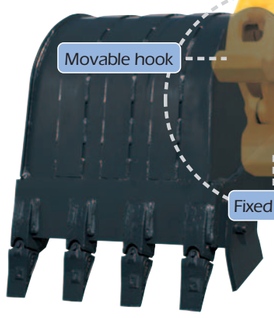
YANMAR Vio Series
True Zero Tail Swing Excavator

YANMAR - YOUR BEST PARTNER FOR BUILDING THE FUTURE

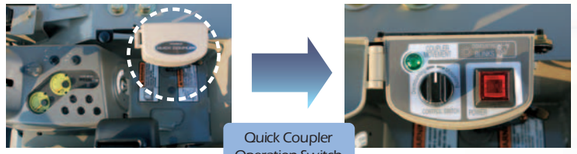
The Mini Exavator, Reinvented by Yanmar
A Whole Line Up of High Performance Features for Professionals

Fast and Easy Bucket Attachment Changing

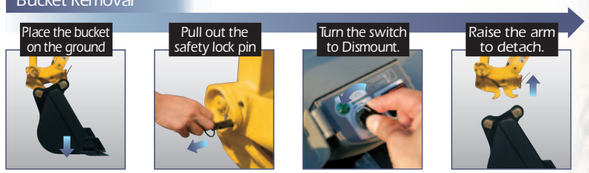
The Hydraulic Quick Coupler Makes Bucket Attachment and Removal Quick and Clean



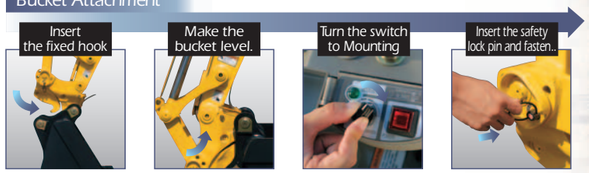
The Quick Coupler makes the once troublesome task of changing buckets fast and easy without even getting your hands dirty. It's all performed by switch operation while you remain seated, except for fitting and removal of the safety lock pin. You can also use attachments made by other companies, thereby reducing storage costs and saving space.

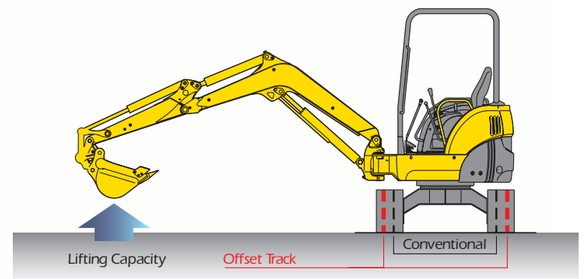


Bucket Removal



Bucket Attachment

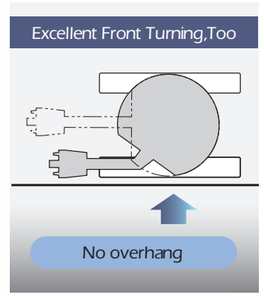




Stability Equal to a Standard-sized Machine

Highly Balanced Structure

Yanmar's "VICTAS" Offset Track technology provides superior stability.

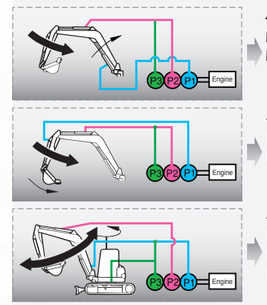


True Zero Tail Swing, No Overhang at the Rear

Side Ditch Digging up to the Wall with Nothing Sticking Out beyond the Track

Decrease Cycle Time with "VIPPS"

VIPPS (3 pumps combine flow for simultaneous combined movements)

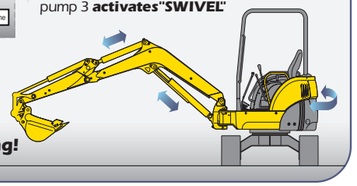


ARM×Boom
pump 2+pump 3 **activate "ARM"**
pump 1 **activates "BOOM"**

ARM×Bucket
pump 1 **activates"BUCKET"**
pump 2+pump 3 **activate "ARM"**

ARM×Bucket×Swivel
pump 1 +pump 3 **activate "BOOM"**
pump 2 **activates "ARM"**
pump 3 **activates"SWIVEL"**

Smooth even while using both the boom and arm during turning!



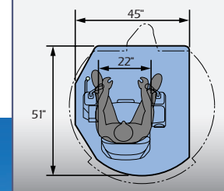
YANMAR Originality

Operation So Easy it's a Joy
All-Round Comfort and Convenience

Roomy Operator Space for Unrestricted Operation

Even a zero tail swing, the largest cabin in this machine class, provides easy, unrestricted operating space.
Large, suspension seat reduces operator stress and fatigue.

Universal Vio 14sqft



The air conditioner adds to operator efficiency.
(Cabin option)

The convenient light arrangement expands the operator's field of view for night work.

Walk-through operator's area. Get on and off from either side. (Canopy option)

Socket-convenient for charging mobile telephones.

Broad Range of Sight for Safe and Comfortable Operation

The standard, lightweight canopy has ROPS and FOPS to protect the operator in rollovers and from falling objects. Nothing blocks the operator's view for safer, more efficient operation.

Lever operation from the wrist and the armrest alleviate the fatigue of a long working day.

Foldable footrests for ample legroom

Large travel pedals

Hand control for remote hydraulics

Proven Durability and Ease of Maintenance

Simple Engine Access Brings Big Improvements to Maintenance Efficiency

Daily Checks

Just open the rear engine cover to check the battery and engine oil, clean the air cleaner and replenish cooling system.

Checking and Cleaning the Radiator

The right-hand cover is opened by loosening just two bolts. Open the maintenance cover on the top right hand side to clean quickly and easily behind the radiator.

Hood

Open the hood for easy access to the alternator and the handy tool storage tray.

Replacing the Implement Hose

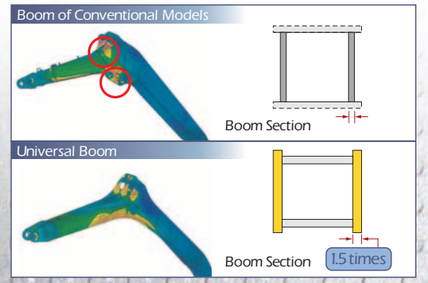
Remove the right-hand step to reveal the hose joint at the front of the frame. Replacement of the hydraulic hose is simple if necessary.

Starter Motor

Open the cover beneath the operator's seat and then the side cover to reveal the starter motor.

Rugged, High-Strength Universal Boom

The smooth curved design of the universal boom distributes the stress over a larger area. The side plate is 1.5 times thicker. The result is increased strength for longer service life.



Cylinder Guards and Underside Protector for Damage Protection

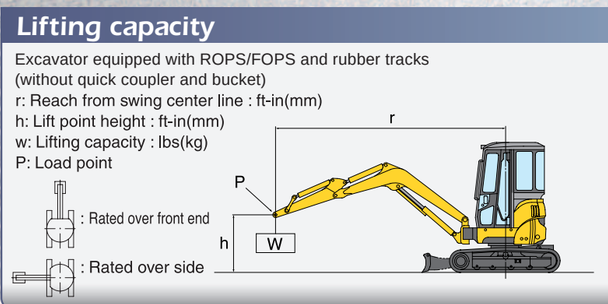
Cylinder guard

The spring steel cylinder guard is resilient against shocks and used to protect the bucket arm and boom cylinders. The frame corners are reinforced with ultra-high strength steel. The side cover has a thicker plate for higher resilience.

Underside protector

Lifting capacity

Excavator equipped with ROPS/FOPS and rubber tracks (without quick coupler and bucket)
r: Reach from swing center line : ft-in(mm)
h: Lift point height : ft-in(mm)
w: Lifting capacity : lbs(kg)
P: Load point



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 pin 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.

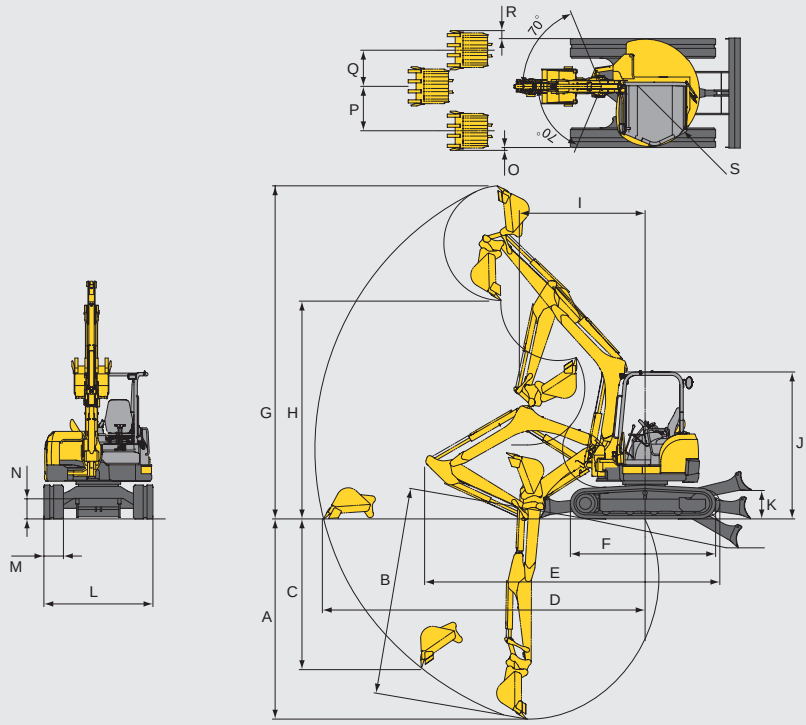
Vio45-5

LIFT POINT HEIGHT	r:REACH ft-in (mm)				r:REACH ft-in (mm)				r:REACH ft-in (mm)			
h:ft-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	13'1" (4000)	9'10" (3000)	8'3" (2500)	MAX	13'1" (4000)	9'10" (3000)	8'3" (2500)	MAX	13'1" (4000)	9'10" (3000)	8'3" (2500)
13'1" (4000)	*1768(802)				*1740(789)				*1808(820)			
9'10" (3000)	*1808(820)	*1760(798)	*2507(1137)	*3063(1389)	1327(602)	*1702(772)	*2412(1094)	*2988(1355)	1261(572)	*1749(793)		
6'7" (2000)	*2000(907)	*2018(915)	*3409(1546)	*4580(2077)	1144(519)	1559(707)	2344(1063)	3294(1494)	1078(489)	1493(677)	*2430(1102)	*2988(1355)
3'3" (1000)	*2000(907)	*2384(1081)	*3821(1733)	*4800(2177)	1120(508)	1493(677)	2320(1052)	3080(1397)	1021(463)	1394(632)	2179(988)	3294(1494)
Ground (0)	*2115(959)	*2564(1163)	*3638(1650)	*4494(2038)	1162(527)	1475(669)	2220(1007)	2961(1352)	1069(485)	1327(602)	2121(962)	3080(1397)
-3'3" (-1000)	*2267(1028)	*2401(1089)	*2708(1228)	*3457(1568)	1376(624)	1460(662)	2335(1059)	2972(1348)	1261(572)	1327(602)	2070(939)	2981(1352)
-6'7" (-2000)	*2287(1037)				1989(902)				1890(857)		2187(992)	2972(1348)

Vio55-5

LIFT POINT HEIGHT	r:REACH ft-in (mm)				r:REACH ft-in (mm)				r:REACH ft-in (mm)			
h:ft-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	13'1" (4000)	9'10" (3000)	8'3" (2500)	MAX	13'1" (4000)	9'10" (3000)	8'3" (2500)	MAX	13'1" (4000)	9'10" (3000)	8'3" (2500)
13'1" (4000)	*2075(941)	*1969(893)			*2018(915)	*1923(872)			*2055(932)	*1969(893)		
9'10" (3000)	*2055(932)	*2046(928)			1475(669)	*2057(933)			1409(639)	*2057(933)		
6'7" (2000)	*2095(950)	*2441(1107)	*3246(1472)	*4051(1837)	1327(602)	2029(920)	*3226(1463)	*3993(1811)	1244(564)	1956(867)	3246(1472)	3993(1811)
3'3" (1000)	*2152(976)	*2822(1280)	*4051(1837)	*5528(2507)	1277(579)	2004(909)	2915(1322)	4055(1839)	1211(549)	1824(827)	2717(1232)	3658(1659)
Ground (0)	*2209(1002)	*3111(1411)	*4494(2038)	*5585(2533)	1327(602)	1905(864)	2930(1329)	3808(1727)	1252(568)	1824(827)	2699(1224)	3435(1558)
-3'3" (-1000)	*2267(1028)	*2900(1315)	*4120(1959)	*5221(2368)	1484(673)	1839(834)	2831(1284)	3709(1682)	1409(639)	1749(793)	2683(1217)	3468(1543)
-6'7" (-2000)	*2209(1002)			*4242(1924)	1923(872)			3658(1659)	1824(827)			3625(1644)

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.



Dimensions

unit:ft-in (mm)

	Vio45-5	Vio55-5
A	12'1" (3680)	13'1" (3980)
B	12'8" (3850)	13'8" (4160)
C	8'10" (2700)	9'6" (2900)
D	19'1" (5820)	20'4" (6200)
E	17'3" (5260)	18'3" (5560)
F	8'7" (2620)	8'7" (2620)
G	19'6" (5950)	21'2" (6440)
H	12'10" (3910)	14'5" (4400)
I	7'8" (2340)	7'7" (2320)
J	8'7" (2620)	8'7" (2620)
K	1'8" (500)	1'8" (500)
L	6'5" (1950)	6'6" (1990)
M	1'2" (350)	1'4" (400)
N	1'2" (360)	1'2" (360)
O	2" (40)	2" (45)
P	2'7" (795)	2'7" (795)
Q	2'2" (650)	2'2" (650)
R	5" (130)	5" (135)
S	R3'2" (R975)	R3'3" (R995)

Specifications

Model			Vio45-5		Vio55-5	
Type			Canopy	Cabin	Canopy	Cabin
Operating weight	Rubber track	lbs (kg)	10121 (4590)	10386 (4710)	11312 (5130)	11576 (5250)
	Steel track	lbs (kg)	10275 (4660)	10540 (4780)	11466 (5200)	11731 (5320)
Engine	Type		Water-cooled 4 cycle diesel			
	Model		4TNV88-PBV			
	Output	hp (kW)/RPM	38.7 (28.8)/2400			
Performance	Max. digging force, bucket/arm	lbs (kN)	6722 (29.9)/4995 (22.2)		7598 (33.8)/5062 (22.5)	
	Traveling speed	MPH (km/h)	2.8/1.4 (4.6/2.3)		2.7/1.4 (4.4/2.3)	
	Swing speed	RPM	10.0			
	Boom swing angle, (L/R)	degrees	70/70			
Ground contact pressure	Rubber track	PSI (kPa)	4.19 (28.9)	4.32 (29.8)	3.96 (27.3)	4.12 (28.4)
	Steel track	PSI (kPa)	4.25 (29.3)	4.38 (30.2)	4.02 (27.7)	4.18 (28.8)
Hydraulic system	Pump capacity	GPM	10.6+10.6+10.6+3.1			
		(L/min)	40.3+40.3+40.3+11.7			
	Main relief set pressure	PSI (MPa)	3133 (21.6)		3553 (24.5)	
Undercarriage	Track type		Rubber or Steel			
Blade dimensions	Width × height	ft-in (mm)	6'6" × 1'4" (1970×400)			
Fuel tank capacity		Gals (L)	16.9 (64)			

Hydraulic P.T.O.

Model	Vio45-5			Vio55-5		
Output / Specification	PSI (MPa)	GPM (L/min)		PSI (MPa)	GPM (L/min)	
		2400RPM	1200RPM		2400RPM	1200RPM
Conbined flow,double actions	3133 (21.6)	19.7 (74.6)	9.8 (37.3)	3553 (24.5)	21.3 (80.6)	10.6 (40.3)

Standard equipment

(Please note that the standard equipment may vary from this list. Consult your Yanmar dealer for confirmation)

- Blade
- Boom swing function
- Rubber or Steel tracks
- Hydraulic quick coupler
- 2way control pattern change
- Auxiliary valve and piping(arm end)
- Cylinder cover(boom,arm,bucket,blade)
- ROPS / FOPS cabin or canopy
- Windshield Washer (Cabin Option)
- Defroster (Cabin Option)
- Joystick pilot controls
- Arm rests (adjustable)
- Suspension and reclining seat
- Seat belt
- Travel levers and pedals
- Traveling alarm
- Built-in type boom light
- Exterior canopy or cabin work light
- Convex rear view mirror
- Operation manual

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