**Specifications**

- **Canopy**
  - ViO27-5B: 6946 (3150), 7166 (3250), 5.02 (34.6)
  - ViO35-5B: 5.49 (30.9)

- **Vio27-5B**
  - Model: 3TNV82A-SBV
  - Output: 21.6 (16.1) / 2200 RPM
  - Traveling speed: 6722 (29.9)
  - Swing speed: 2.9 / 1.7 (4.7/2.8)
  - Max digging force: 9.0 +9.0 +4.9 +2.6
  - Ground contact pressure: 34.1 +34.1 +18.7 +9.9
  - Operating weight: 2987 (20.6), 2842 (19.6)

- **Cabin**
  - ViO27-5B: 7231 (3280), 7453 (3380), 5.22 (36.0)
  - ViO35-5B: 5.67 (32.2)

- **Water-cooled 4 cycle diesel**
  - Output: 10.0
  - Traveling speed: 45 / 75

- **Rubber or Steel tracks**
  - Type: Rubber track, Steel track
  - Width x height: 5'1” x1'1” (1550 x320)

**Dimensions**

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>ViO27-5B</td>
<td>9'</td>
<td>9'6</td>
<td>7'9</td>
<td>15'1</td>
<td>13'9</td>
<td>6'7</td>
<td>15'2</td>
<td>9'7</td>
<td>6'11</td>
<td>8'3</td>
<td>1'2</td>
<td>5'1</td>
<td>10''</td>
<td>1'1</td>
<td></td>
</tr>
<tr>
<td>ViO35-5B</td>
<td>10'10</td>
<td>11'4</td>
<td>9'4</td>
<td>17'2</td>
<td>15'1</td>
<td>6'11</td>
<td>17'5</td>
<td>11'8</td>
<td>7'1</td>
<td>8'3</td>
<td>1'5</td>
<td>5'1</td>
<td>1'0</td>
<td>300</td>
<td></td>
</tr>
</tbody>
</table>

**Standard Equipment**

- 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
- Hydraulic P.T.O

**Note:**

- All information presented in this Brochure is subject to change without notice.
- Universal ViO 27-5B ViO35-5B   8P catalog (Size W:216mm X H:280mm)

*Max digging force measured with buckets supplied in North America.*
The Mini Excavator, 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, there by reducing storage costs and saving space.

Bucket Removal
- Place the bucket on the ground
- Pull out the safety lock pin
- Turn the switch to Dismount
- Raise the arm to detach

Bucket Attachment
- Insert the fixed hook
- Make the bucket level
- Turn the switch to Mounting
- Insert the safety lock pin and fasten

True Zero Tail Swing,
No Counter Weight Overhang the Rear
Side Ditch Digging up to the Wall with Nothing Sticking Out beyond the Track.

Excellent Front Turning, Too

YANMAR Originality

Universal ViO 27-5B ViO35-5B   8P catalog(Size W:216mm X H:280mm)
Smooth even while using both the boom and arm during turning!

Stability is Equal to a Standard-sized Machine

Highly Balanced Structure

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

VIPPS (3 pumps combine flow for simultaneous combined movements)

True Zero Tail Swing, No Counter Weight Overhang the Rear Side

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

Lifting Capacity
Offset Crawler
Conventional

ARM × Boom
pump 1 activates "ARM"
pump 2 activates "BOOM"

ARM × Bucket
pump 1 activates "BUCKET"
pump 2 activates "ARM"

ARM × Boom × Swivel
pump 1 activates "BOOM"
pump 2 activates "ARM"
pump 3 activates "SWIVEL"

Smooth even while using both the boom and arm during turning!
Operation So Easy it’s a Joy
All-Round Comfort and Convenience

Large 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.

The convenient light arrangement expands the operator’s range of sight excellent for night work.

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

Socket-convenient for charging mobile telephones or other appliances.

The powerful air conditioner provides the same comfort as in an air-conditioned passenger car. (Cabin option.)
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 traveling pedals.
- Hand control for remote hydraulics.
- The powerful air conditioner provides the same comfort as in an air-conditioned passenger car. (Cabin option.)

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.
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 on the top right cover for easy maintenance and fuel supply.

Easy Access to Hydraulic Hoses
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.

System.
- Cleaning, checking and replenishing cooling and engine oil, cleaning the air cover to check the battery.
- Just open the rear engine cover.
- Daily Checks:
  - Opening the radiator.
- Cleaning:
  - Checking and supplying maintenance and fuel.
- Right cover for easy replacement of the hydraulic hose.
- Easy Access to starter motor.

Cylinder Guard and Underside Protector

- For Preventing damages
- Protective arm plate for higher resilience.
- Reinforced with ultra-high strength steel.
- Side cover has a thicker plate for higher resilience.
- Protect the bucket arm and boom cylinders.
- Frame corners are reinforced.

Excavator equipped with ROPS/FOPS and rubber tracks

- Height: 78.7 in (mm)
- Lift point: -78.7

- Height: 68.7 in (mm)
- Lift point: -59.1

- Height: 59.1 in (mm)
- Lift point: -39.4

- Height: 39.4 in (mm)
- Lift point: 78.7

- Height: 96.5 in (mm)
- Lift point: 118.1

- Ground: 1356 (615)
- Lift: 1547 (702)
- End: 1558 (707)

- Ground: 1472 (668)
- Lift: 1472 (668)
- End: 1472 (668)

- Ground: 1181 (584)
- Lift: 1269 (528)
- End: 1288 (539)

- Ground: 890 (404)
- Lift: 930 (422)
- End: 979 (444)

- Ground: 1212 (550)
- Lift: 1221 (554)
- End: 1237 (561)

- Ground: 1512 (686)
- Lift: 1512 (686)
- End: 1512 (686)

- Lift: 1561 (708)
- End: 1598 (725)
- End: 2088 (947)

- Ground: 812 (356)
- Lift: 912 (461)
- End: 1014 (460)

- Lift: 1020 (463)
- End: 1087 (493)
- End: 1164 (528)

- Lift: 1005 (456)
- End: 1062 (482)
- End: 1230 (558)

- Lift: 1386 (629)
- End: 1444 (655)
- End: 1512 (686)

- Lift: 1722 (781)
- End: 1733 (786)
- End: 1799 (816)

- Lift: 2088 (947)
- End: 2279 (1034)
- End: 3525 (1599)

- Lift: 2200 (998)
- End: 2520 (1143)
- End: 4006 (1817)

- Lift: 2892 (1312)
- End: 3104 (1408)
- End: 3574 (1621)

- Lift: 3170 (1438)
- End: 3909 (1773)
- End: 3027 (1373)

- Lift: 2412 (1094)
- End: 2853 (1294)
- End: 2394 (1086)

- Lift: 1512 (686)
- End: 1096 (498)
- End: 740 (336)

- Lift: 890 (404)
- End: 782 (355)
- End: 725 (329)

- Lift: 1369 (621)
- End: 1386 (629)
- End: 1444 (655)

- Lift: 1512 (686)
- End: 1567 (711)
- End: 1552 (704)

- Lift: 1512 (686)
- End: 1561 (708)
- End: 1512 (686)

- Lift: 1512 (686)
- End: 1561 (708)
- End: 1512 (686)
Cylinder Guard and Underside Protector

for Preventing damages

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.

Lifting capacity

Excavator equipped with ROPS/FOPS and rubber tracks (with quick coupler and without bucket)

- Reach from swing center line : ft-in (mm)
- Lift point height : ft-in (mm)
- Lifting capacity : lbs (kg)
- P: Load point

| Cylinder Guard and Underside Protector | Cylinder guard |

<table>
<thead>
<tr>
<th>Lifting capacity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RATED LIFT CAPACITY OVER END BLADE DOWN lbs (kg)</td>
<td>RATED LIFT CAPACITY OVER END BLADE UP lbs (kg)</td>
</tr>
<tr>
<td>MAX</td>
<td>118.1 (3000)</td>
</tr>
<tr>
<td>118.1 (3000)</td>
<td>1472 (668)</td>
</tr>
<tr>
<td>96.5 (2500)</td>
<td>1472 (668)</td>
</tr>
<tr>
<td>78.7 (2000)</td>
<td>1472 (668)</td>
</tr>
<tr>
<td>39.4 (1000)</td>
<td>1510 (685)</td>
</tr>
<tr>
<td>Ground (0)</td>
<td>1558 (707)</td>
</tr>
<tr>
<td>-39.4 (-1000)</td>
<td>1547 (702)</td>
</tr>
<tr>
<td>-59.1 (-1500)</td>
<td>1356 (615)</td>
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</table>

<table>
<thead>
<tr>
<th>Lifting capacity</th>
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</thead>
<tbody>
<tr>
<td>RATED LIFT CAPACITY OVER END BLADE DOWN lbs (kg)</td>
<td>RATED LIFT CAPACITY OVER END BLADE UP lbs (kg)</td>
</tr>
<tr>
<td>MAX</td>
<td>137.8 (3500)</td>
</tr>
<tr>
<td>118.1 (3000)</td>
<td>1274 (578)</td>
</tr>
<tr>
<td>78.7 (2000)</td>
<td>1353 (615)</td>
</tr>
<tr>
<td>39.4 (1000)</td>
<td>1419 (640)</td>
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<tr>
<td>Ground (0)</td>
<td>1799 (816)</td>
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<tr>
<td>-39.4 (-1000)</td>
<td>1799 (816)</td>
</tr>
<tr>
<td>-59.1 (-1500)</td>
<td>1799 (816)</td>
</tr>
</tbody>
</table>

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

Vio27-5B

Vio35-5B

Ground (0)

-39.4 (-1000)

-59.1 (-1500)

-78.7 (-2000)

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 lift 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 position 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).
3. The weight of the excavator’s bucket, hook, sling and other lifting accessories have been taken into consideration when calculating these maximum loads.

True Zero Tail Swing Excavator
Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ViO27-5B</th>
<th>ViO35-5B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Rubber track</td>
<td>Steel track</td>
</tr>
<tr>
<td>Engine</td>
<td>Type</td>
<td>Model</td>
</tr>
<tr>
<td>Performance</td>
<td>Multi-function, hydraulic, 4-cycle diesel</td>
<td></td>
</tr>
<tr>
<td>Pressure (PSI)</td>
<td>6946 (3150)</td>
<td>7166 (3250)</td>
</tr>
<tr>
<td>RPM</td>
<td>21.6 (16.1) / 2200</td>
<td>28.9 (23.0) / 3000</td>
</tr>
<tr>
<td>Speed (mph)</td>
<td>2.9 / 1.7 (4.7 / 2.8)</td>
<td></td>
</tr>
<tr>
<td>Boom angle</td>
<td>45 / 75</td>
<td></td>
</tr>
<tr>
<td>Blade</td>
<td>Width x height (in)</td>
<td></td>
</tr>
<tr>
<td>Fuel capacity</td>
<td>111 (42)</td>
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<tr>
<td>Hydraulic</td>
<td>Undercarriage</td>
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</tr>
<tr>
<td>Coupling</td>
<td>Track type</td>
<td></td>
</tr>
</tbody>
</table>

Standard Equipment

- Blade
- Boom swing function
- Rubber or Steel tracks
- Hydraulic quick coupler
- 2-way control pattern change
- Auxiliary valve and piping (arm end)
- Cylinder cover
- 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

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

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