

# KOMATSU®

## PC35MR-3

NET HORSEPOWER

21.4 kW **29 HP**

OPERATING WEIGHT

3595 kg **7,909 lb**

**PC**  
**35MR**

COMPACT HYDRAULIC  
EXCAVATOR



Photo may include optional equipment.

# WALK-AROUND

## *Performance and Versatility*

- Standard auxiliary hydraulics
- Standard thumb mounting bracket
- Three track options: Rubber, steel, roadliner
- Automatic two-speed travel
- ISO/SAE pattern change valve
- Optional Power Angle blade

## *Service and Maintenance*

- Wide opening engine hood and side covers
- Side-by-side radiator and oil cooler are easily inspected
- Grease points for work equipment are on the same side of the boom and arm
- Tilt-forward operator's station provides full access to engine and hydraulic components
- Hydraulic hoses are alpha-numerically marked or color coded making them easy to identify

## *Operator Comfort*

- Large operator platform
- Adjustable suspension seat with retractable seat belt
- Pilot proportional joystick controls
- Easy entry and egress
- Low noise



KOMTRAX equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology.

**NET HORSEPOWER**

21.4 kW 29 HP

**OPERATING WEIGHT**

3595 kg 7,909 lb

**DIG DEPTH**

3455 mm 11'4"



***Value, Durability, and Strength***

- KOMTRAX® wireless equipment monitoring system
- High strength X-track frame
- Castings are used for boom foot, tip, and swing yoke
- Large diameter swing pin
- Reinforced arm
- O-ring face seal hydraulic fittings
- Moisture/dust resistant electrical connectors

***Peace of Mind***

- Two-post ROPS canopy or ROPS cab
- Neutral engine start system
- Excellent visibility enhances job site awareness
- Low emission Komatsu engine with dual element air cleaner
- One key operates the ignition and all machine locks

# OPERATOR ENVIRONMENT



## ***Operator Station***

- Spacious canopy/cab with unobstructed floor provides the operator with ample leg room
- Folding travel pedals
- Upper rail sliding door (cab models)
- Air conditioning provides a comfortable operating space throughout the year (cab models)
- Two-post ROPS canopy provides unequalled visibility
- Fully adjustable suspension seat reduces operator fatigue
- PPC joystick controls are low effort and provide fine control
- Gauges and indicator lights are easy to read

# FEATURES

**Tight Tail Swing**

The operator can focus more on the work in front and worry less about rear swing clearance, even in confined areas with only an 80 mm 3.1" projection over the tracks.

**Pattern Change Valve**

Whether you are comfortable with ISO or SAE, you can easily change from one to the other.

**Excellent Visibility**

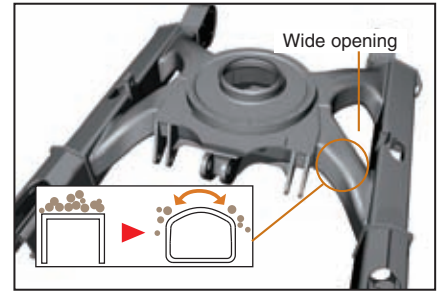
The operator's station design allows the operator to maintain a 360° field-of-view.

**Tilt-Up Operator Compartment**

The operator compartment tilts forward for easy access to hydraulic and engine components.

**Wide Opening Engine Hood and Side Covers**

Allow easy access for daily checks and regular maintenance.

**High Strength X-Track Frame**

X-track frame is a large hydraulic excavator concept and deters the build-up of dirt and debris, saving the operator valuable time when cleaning the machine.

**Neutral Engine Start System**

Locks out drives and hydraulics during machine start up.

**Manual Selector Valve**

Allows the operator to switch between one-way (Breaker) and two-way auxiliary hydraulic flow (Thumb).

**Large Diameter Swing Pin**

Has high durability and maintains suitable clearances between pin and bushing after long-term operation.

**Extended Maintenance Intervals**

Lubricate swing circle	500 hrs
Lubricate work equipment	500 hrs
Replace engine oil and filter	500 hrs
Fuel filter	500 hrs
Hydraulic filter	1000 hrs

**Three Track Options Available**

Rubber



Steel



Roadliner

## SPECIFICATIONS



### ENGINE

Model	Komatsu 3D88E-6
Type	Direct injection
Piston displacement	1.64 ltr <b>100 in³</b>
Horsepower:	
Net (ISO 9249/SAE J1349)	21.4 kW <b>29 HP</b> @ 2400 rpm



### ELECTRICAL SYSTEM

Operating voltage	12 V
Battery	58 Ah
Alternator	40 A
Starter	2.3 kW



### HYDRAULIC SYSTEM

Type	HydrauMind
Main pump:	
Type	Variable displacement x 2 Gear x 1
Maximum oil flow	36.1 x 2 + 19.8 ltr/min <b>9.5 x 2 + 5.2 gal/min</b>
Hydraulic motor:	
Travel	Variable displacement x 2
Swing	Fixed displacement x 1
Maximum pressure setting	265 kg/cm² <b>3,770 psi</b>
Auxiliary flow	70 ltr/min <b>18.5 gal/min</b>



### PERFORMANCE

Travel speed	
High	4.8 km/hr <b>3.0 mph</b>
Low	2.8 km/hr <b>1.7 mph</b>
Swing speed	9.0 rpm
Ground pressure	0.36 kg/cm² <b>5.1 psi</b>
Max. drawbar pull	3400 kg <b>7,500 lb</b>
Gradeability	30°
Bucket digging force (ISO)	3050 kg <b>6,725 lb</b>
Arm crowd force (ISO)	1670 kg <b>3,682 lb</b>



### DRIVES AND BRAKES

Drive method	Hydrostatic
Type of travel brake	Hydraulic lock
Type of travel shoe	Rubber



### UNDERCARRIAGE

Adjustment of the track tension	Grease gun
Number of carrier rollers (each side)	1
Number of track rollers (each side)	4



### REFILL CAPACITIES

Fuel tank	44 ltr <b>11.6 U.S. gal</b>
Hydraulic tank	14 ltr <b>3.7 U.S. gal</b>
Engine	6.7 ltr <b>1.8 U.S. gal</b>
Coolant	3.3 ltr <b>0.9 U.S. gal</b>



### OPERATING WEIGHT (APPROXIMATE)

Operating weight (with ROPS canopy and rubber shoe)	3595 kg <b>7,909 lb</b>
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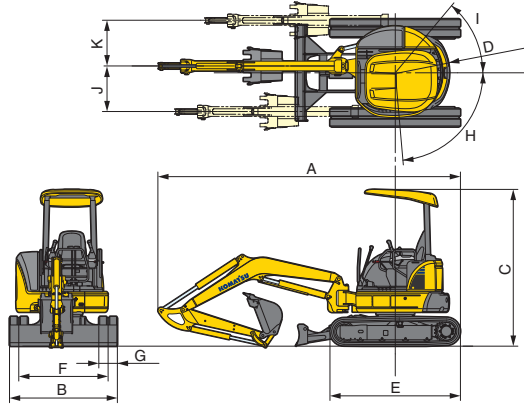


### BLADE

Width x height	1740 x 355 mm <b>5'9" x 1'2"</b>
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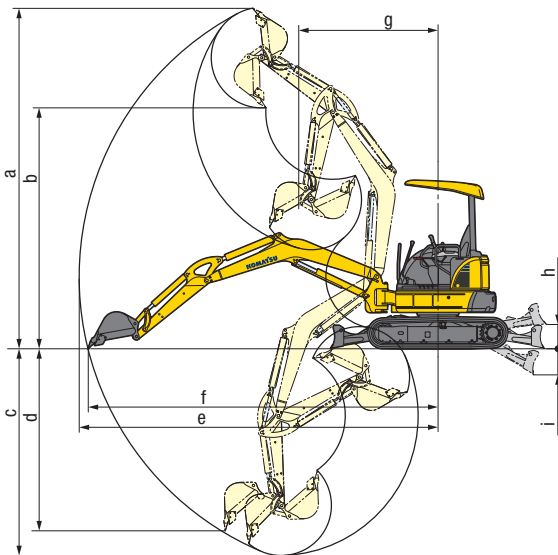
## DIMENSIONS



A	Overall length	4905 mm <b>16'1"</b>
B	Overall width	1740 mm <b>5'9"</b>
C	Overall height	2520 mm <b>8'3"</b>
D	Tail swing radius	950 mm <b>3'1"</b>
E	Crawler length	2105 mm <b>6'11"</b>
F	Track gauge	1440 mm <b>4'9"</b>
G	Track shoe width	300 mm <b>11.8"</b>
H/I	Boom swing angle	Left 75°/Right 50°
J/K	Bucket offset	LH 580 mm/RH 770 mm <b>LH 1'11"/RH 2'6"</b>



## WORKING RANGE



a	Maximum digging height	5270 mm <b>17'3"</b>
b	Maximum dumping height	3790 mm <b>12'5"</b>
c	Maximum digging depth	3455 mm <b>11'4"</b>
d	Maximum vertical digging depth	3120 mm <b>10'3"</b>
e	Maximum digging reach	5640 mm <b>18'6"</b>
f	Maximum reach-ground level	5520 mm <b>18'1"</b>
g	Minimum swing radius (With boom swing)	2140 mm <b>7'0"</b> (1710 mm <b>5'7"</b> )
h	Maximum blade lift	360 mm <b>1'2"</b>
i	Maximum blade depth	390 mm <b>1'3"</b>



## LIFTING CAPACITY

Blade on ground		Unit: kgf lbf							
		2 m 6.5'		3.0 m 10'		4 m 13'		Maximum Reach	
		Front	Side	Front	Side	Front	Side	Front	Side
Arm Length 1720 mm 5'7"	3 m 10'	—	—	—	—	595* <b>1312*</b>	410 <b>904</b>	615* <b>1356*</b>	340 <b>750</b>
	2 m 6.5'	—	—	795* <b>1753*</b>	660 <b>1455</b>	680* <b>1499*</b>	400 <b>882</b>	640* <b>1411*</b>	285 <b>628</b>
	1 m 3.25'	—	—	1165* <b>2568*</b>	610 <b>1345</b>	815* <b>1797*</b>	380 <b>838</b>	675* <b>1488*</b>	265 <b>584</b>
	0 m 0'	2735* <b>6030*</b>	1085 <b>2392</b>	1390* <b>3064*</b>	575 <b>1268</b>	910* <b>2006*</b>	365 <b>805</b>	720* <b>1587*</b>	275 <b>606</b>
	-1 m -3.25'	2470* <b>5445*</b>	1090 <b>2403</b>	1370* <b>3020*</b>	565 <b>1246</b>	880* <b>1940*</b>	360 <b>794</b>	770* <b>1698*</b>	320 <b>705</b>

\*Load is limited by hydraulic capacity rather than tipping. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping load.



## STANDARD EQUIPMENT

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- Air cleaner, dual element
- Automatic two-speed travel control
- Auxiliary hydraulics with selector valve
- Backfill blade
- KOMTRAX®
- Pattern change valve
- Rearview mirrors
- Rubber track
- Suspension seat with 50 mm 2" wide retractable seat belt
- Travel alarm
- Travel pedals
- Two-post ROPS canopy



## OPTIONAL EQUIPMENT

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- 76 mm 3" retractable seat belt
- Additional work light (cab or canopy)
- Cab with air conditioner, radio ready, and 12 V outlet
- Power angle blade
- Road liner track
- Steel track
- Wide variety of attachments

**KOMATSU®**

**YANMAR**

# Vi035-6A

TRUE ZERO TAIL SWING MINI EXCAVATOR



## **Power, flexibility and stability in a compact package.**

YANMAR's Vi035-6A, our 3.5-ton class mini excavator, is powered by a 24.4 hp Tier 4 Final YANMAR engine. It raises the bar with 20% less fuel consumption and with operator comfort for the long hours at jobsites. With true zero tail swing, it allows you to be more productive while working on construction, utility, and landscaping applications. Plus, Yanmar's unique SmartAssist Remote system gives you peace of mind with theft prevention and maintenance management tools as well as among other remote monitoring services.

### **QUICK SPECS**

Weight	Horsepower	Max Dig Depth
7,905 lbs	24.4 hp	11'3"

### **INNOVATIVE FEATURES**



#### **Advanced Operation Control System**

The digital control system allows you to monitor up to three months of operational history. Because this state-of-the-art system centralizes control of machine operation information and maintenance support information, it's never been easier to maintain a timely, efficient service process.



#### **Easier To Service Than Your Car**

The innovative design puts virtually every major component – engine, hydraulic system, starter, alternator, battery – right at your fingertips. Because routine filter and grease fitting checks are easier and quicker, you can perform them more often, extending the life of and improving the durability of your machine.



#### **YANMAR's Patented Quick Coupler System**

The standard hydraulic Quick Coupler makes changing buckets fast and easy. With the exception of fitting and removing the safety lock pin, the entire operation is performed electronically while you're seated in the comfort of the cab. Less hassle, less downtime, more productivity!

## Specifications

Model			Vi035-6A	
Type			Canopy	Cabin
Operating Weight	Rubber track	lbs (t)	7,905 (3.58)	8,214 (3.72)
	Steel track	lbs (t)	8,125 (3.68)	8,434 (3.83)
Engine	Type	-	Water-cooled 4-cycle diesel	
	Model	-	3TNV88F-ESBV	
	Rated Output	HP (kW)/rpm	24.4 (18.2) / 2,200	
Performance	Max Digging Force, Bucket / Arm	lbs (kN)	7,216 (32.1)* / 4,586 (20.4)*	
	Traveling Speed, High / Low	MPH (km / h)	2.7 (4.5) / 1.6 (2.7)	
	Swing Speed	RPM	9.5	
	Boom Swing Angle, (L / R)	degrees	43 / 65	
Ground Contact Pressure (Rubber Track)		PSI (kPa)	4.80 (33.1)	4.97 (34.3)
Hydraulic System	Pump Capacity	GPM (L / min)	9.8 (37.0) x 2 <Variable displacement pump> 6.9 (26.2) x 1, 2.9 (10.8) x 1 <Gear pump>	
	Main Relief Set Pressure	PSI (MPa)	3,205 (22.1) x 2, 3,133 (21.6) x 1	
Blade Dimensions	Width	ft-in (mm)	5' 8" (1,740)	
	Stroke, Raise / Lower from G.L.	ft-in (mm)	1' 5" (425) / 1' 3" (370)	
Fuel tank capacity		Gals (L)	10.8 (41)	

\*without quick coupler

## Hydraulic PTO

Model	ViO35-6A			
Specification	Output	PSI (MPa)	GPM (L / min)	
			2,200RPM	1,100RPM
Combined Flow, Double Actions		3,205 (22.1)	16.7 (63.2)	8.35(31.6)

## Standard Equipment

Hydraulic Quick Coupler\*  
 Backfill Dozer Blade  
 Boom Swing Function  
 Rubber Tracks  
 Arm End Auxiliary Valve  
 Back Mirror  
 2-way Pattern Control  
 ROPS / FOPS Canopy, Cabin  
 Windshield Washer  
 Joystick Pilot Controls  
 Arm Rests (Adjustable)  
 Suspension and Reclining Seat  
 Seat Belt  
 Proportional Auxiliary  
 Hydraulics Control  
 Dual Speed Switch  
 Auto Deceleration Switch  
 Eco Mode Switch  
 Engine Stop Switch  
 Traveling Alarm  
 Floor Mats

\*Also available without Quick Coupler.

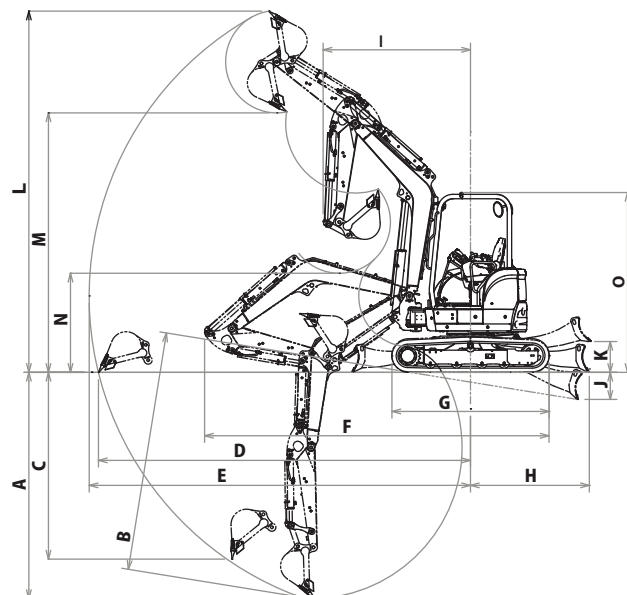
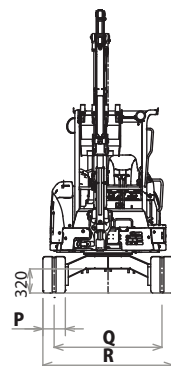
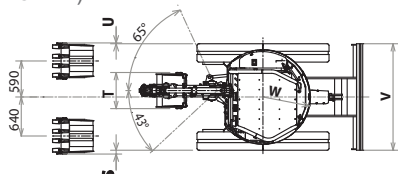
Please note that the standard equipment may vary from this list. Consult your Yanmar dealer for confirmation.

## Lifting Capacity

LIFT POINT HEIGHT h:in (mm)	r:REACH in (mm)											
	RATED LIFT CAPACITY OVER END BLADE DOWN				RATED LIFT CAPACITY OVER END BLADE UP				RATED LIFT CAPACITY OVER SIDE BLADE UP			
	lbs (kg)				lbs (kg)				lbs (kg)			
	MAX	137.8 (3,500)	118.1 (3,000)	98.5 (2,500)	MAX	137.8 (3,500)	118.1 (3,000)	98.5 (2,500)	MAX	137.8 (3,500)	118.1 (3,000)	98.5 (2,500)
118.1 (3,000)	1,719 (780)	1,631 (740)	1,609 (730)		1,058 (480)	1,322 (600)	1,565 (710)		992 (450)	1,278 (580)	1,565 (710)	
78.7 (2,000)	1,763 (800)	1,918 (870)	2,138 (970)	2,491 (1,130)	903 (410)	1,278 (580)	1,653 (750)	2,447 (1,110)	815 (370)	1,256 (570)	1,543 (700)	2,447 (1,110)
39.4 (1,000)	1,807 (820)	2,336 (1,060)	2,888 (1,310)	3,813 (1,730)	793 (360)	1,190 (540)	1,521 (690)	1,984 (900)	749 (340)	1,124 (510)	1,410 (640)	1,807 (820)
Ground (0)	1,873 (850)	2,601 (1,180)	3,218 (1,460)	4,012 (1,820)	815 (370)	1,124 (510)	1,410 (640)	1,873 (850)	793 (360)	1,058 (480)	1,322 (600)	1,719 (780)
-39.4 (-1,000)	1,940 (880)	2,403 (1,090)	2,954 (1,340)	3,703 (1,680)	925 (420)	1,080 (490)	1,388 (630)	1,851 (840)	881 (400)	1,014 (460)	1,322 (600)	1,675 (760)
-59.1 (-1,500)	1,918 (870)	2,050 (930)	2,579 (1,170)	3,130 (1,420)	1,124 (510)	1,080 (490)	1,410 (640)	1,851 (840)	1,058 (480)	1,058 (480)	1,344 (610)	1,675 (760)
-78.7 (-2,000)	1,851 (840)				1,477 (670)				1,410 (640)			

## Dimensions - Vi035-6A

- A** 10 ft. 8 in. (3,250 mm) **N** 4 ft. 1 in. (1,240 mm)  
**B** 11 ft. 3 in. (3,440 mm) **O** 8 ft. 1 in. (2,470 mm)  
**C** 7 ft. 11 in. (2,410 mm) **P** 1 ft. (300 mm)  
**D** 17 ft. 3 in. (5,270 mm) **Q** 4 ft. 9 in. (1,440 mm)  
**E** 17 ft. 8 in. (5,390 mm) **R** 5 ft. 9 in. (1,740 mm)  
**F** 15 ft. 8 in. (4,770 mm) **S** 2.6 in. (65 mm)  
**G** 7 ft. 1 in. (2,160 mm) **T** 1 ft. 11 in. (590 mm)  
**H** 5 ft. 4 in. (1,630 mm) **U** 0.6 in. (15 mm)  
**I** 7 ft. 1 in. (2,170 mm) **V** 5 ft. 9 in. (1,740 mm)  
**J** 1 ft. 3 in. (370 mm) **W** 2 ft. 7 in. (775 mm)  
**K** 1 ft. 5 in. (425 mm)  
**L** 16 ft. 9 in. (5,110 mm)  
**M** 11 ft. 2 in. (3,410 mm)



Find more information on the Vi035-6A at [YanmarCE.com](http://YanmarCE.com).