



**YANMAR** SA221/324/424 & Attachments



2020 • 2019 • 2018  
EQUIPMENT DEALERS ASSOCIATION  
SURVEY | TRACTOR MANUFACTURERS

**PRODUCT  
QUALITY**

**SA221/324/424**



# LOVE YOUR LAND **LOVE YOUR YANMAR**

We each have our own unique relationship to the land. Some of us tend to its creatures. Some of us rely on it for food. And some of us just enjoy basking in its endlessly evolving beauty. What we all share is a common dedication to the soil and a commitment to put back into it more than we take out of it.

This love of the land and a passion for the environment have guided YANMAR for more than 106 years. Our story began with one simple and powerful tenet: “To conserve fuel is to serve mankind.”

Our commitment to the planet and our dedication to serving all of you who serve the land are supported by every bit of easy operation, versatility, and reliability built into every YANMAR SA Series tractor.

## **HISTORY**

**1912**

**Over 100 years in history,** founded as Yamaoka Hatsudoki Kosakusho, a company with a mission to build the most reliable, compact and efficient engines for farmers, fishermen and other trades and businesses.

**1933**

**Over 80 years of diesel engines,** developed the world’s first commercially successful small horizontal water-cooled diesel engine with a cold-start system.

**1967**

**The first YANMAR tractor.** From the beginning, YANMAR tractors, like the 23 horsepower Model YM273, use YANMAR water-cooled diesel engines.

**1979**

YANMAR Tractor (USA) Inc. begins operations in North America.

**1992**

**Millions of diesels.** The 10 millionth YANMAR diesel engine is produced and sold.



**2002**

Established YANMAR Agricultural Machinery Manufacturing Co., LTD., to integrate the group's agricultural businesses. It produced tractors targeted for the global market and their transmissions.

**2006**

Advancing tractor technology. The first generation of HMT (hydromechanical transmission) technology for YANMAR tractors is introduced.

**2014**

YANMAR America introduces the SA Series tractors.

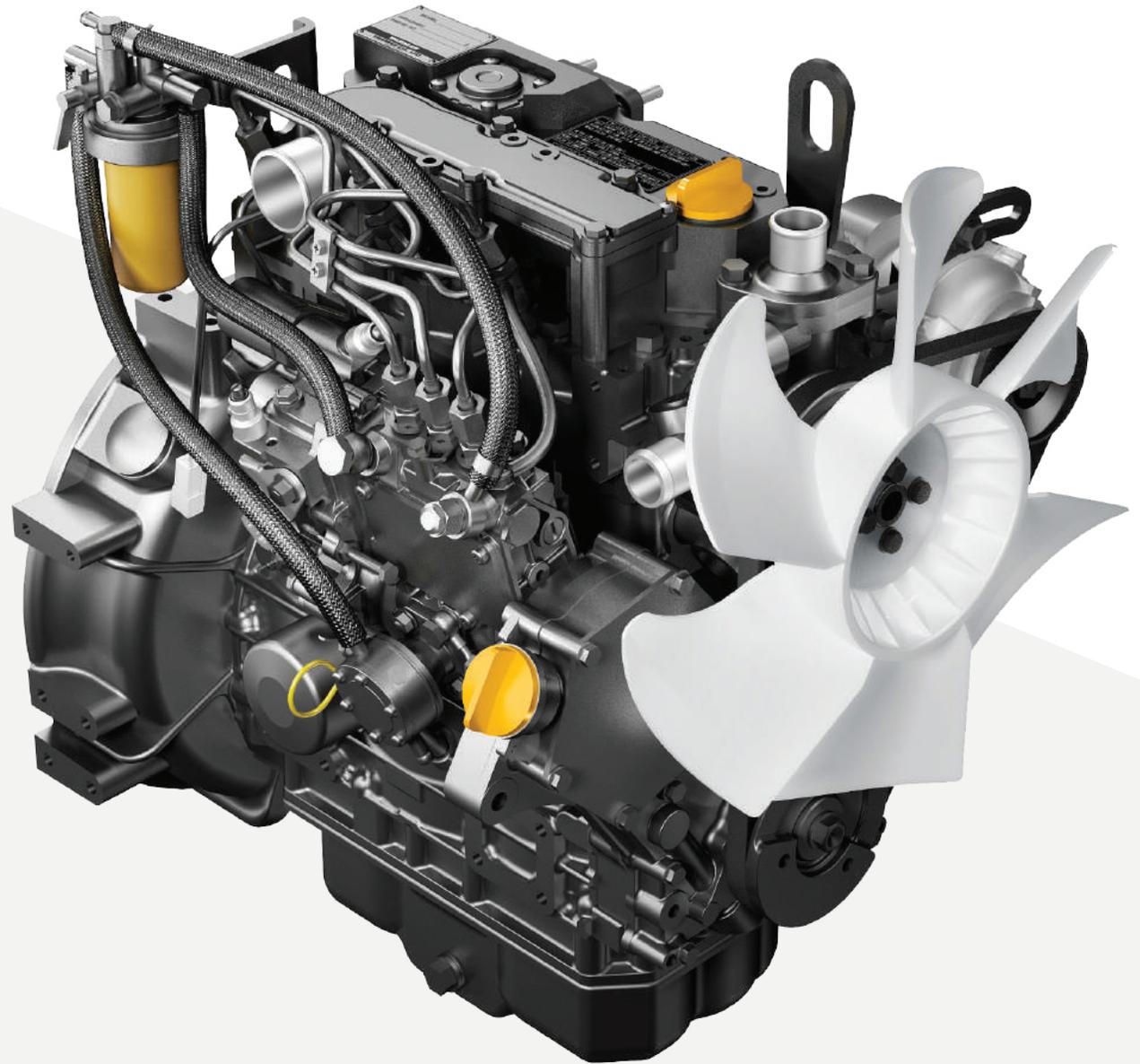
**2016**

YANMAR America introduces the YT2 and YT3 Series tractors. YT3 brings operator-labor-saving advancement to compact tractors with i-HMT transmission and programmable controls.

**2017**

YANMAR EVO//CENTER opens Fall 2017, YANMAR America training and customer experience facility in Acworth, Georgia.

Engine



# Love your **efficiency.**

A famously reliable YANMAR diesel engine powers every YANMAR SA Series tractor so these tractors are ready to work as hard as you do.

# FOUNDER'S SPIRIT: “TO CONSERVE FUEL IS TO SERVE MANKIND.”

Magokichi Yamaoka, Founder of YANMAR



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## The Famously Reliable Diesel

After building tens of millions of compact diesel engines, over more than 80 years of compact diesel engine innovations, YANMAR diesel engines are famous among YANMAR owners—and hundreds of other manufacturers that use YANMAR diesels—for dependable, reliable operation in all kinds of applications and all kinds of conditions.

## Strength and Efficiency

Our three-cylinder liquid-cooled diesel engines rely on innovative fuel-injection systems and combustion chambers to create an unbeatable level of power and efficiency. The result is more power to get through the heaviest load and more efficiency to get every job done on less fuel.

# COMFORT AND CONTROL





Simple to operate; easy access to every control.



Switch seamlessly between forward and reverse with two side-by-side hydrostatic transmission pedals.



Differential lock is standard with foot pedal engagement for SA324 and SA424.



Work comfortably with armrest-mounted loader control lever, while True Position Control lever (below joystick) delivers precise operating height of rear implements.

# Love your productivity.

Designed with the operator in mind, the SA Series is built for comfort and ease of operation. One thing you can expect to hear first from many SA Series owners is that they really like the operator comfort and easy-to-use controls on their SA tractors. Wide-open sight lines and easy access to all instruments and controls make it more pleasurable to operate, while an isolation-mounted engine and the full-frame chassis lessens vibration for a smoother ride. This is the step up you deserve.

SA Series

Love your **YANMAR.**

The SA Series. Multipurpose compact tractors, designed for tough jobs and challenging terrain.



# POWERFUL BY DESIGN



## Mid-mount Mower Specs

### For Models SA324/424

- Heavy-duty, welded, fabricated design
- Drive-over attach and detach
- 60" width
- Gear box driven mower deck

### For Model SA221

- Pivoting caster wheels for quick attach & detach
- 60" width
- Gear box driven mower deck

## Sleek New Look. Same Reliability.

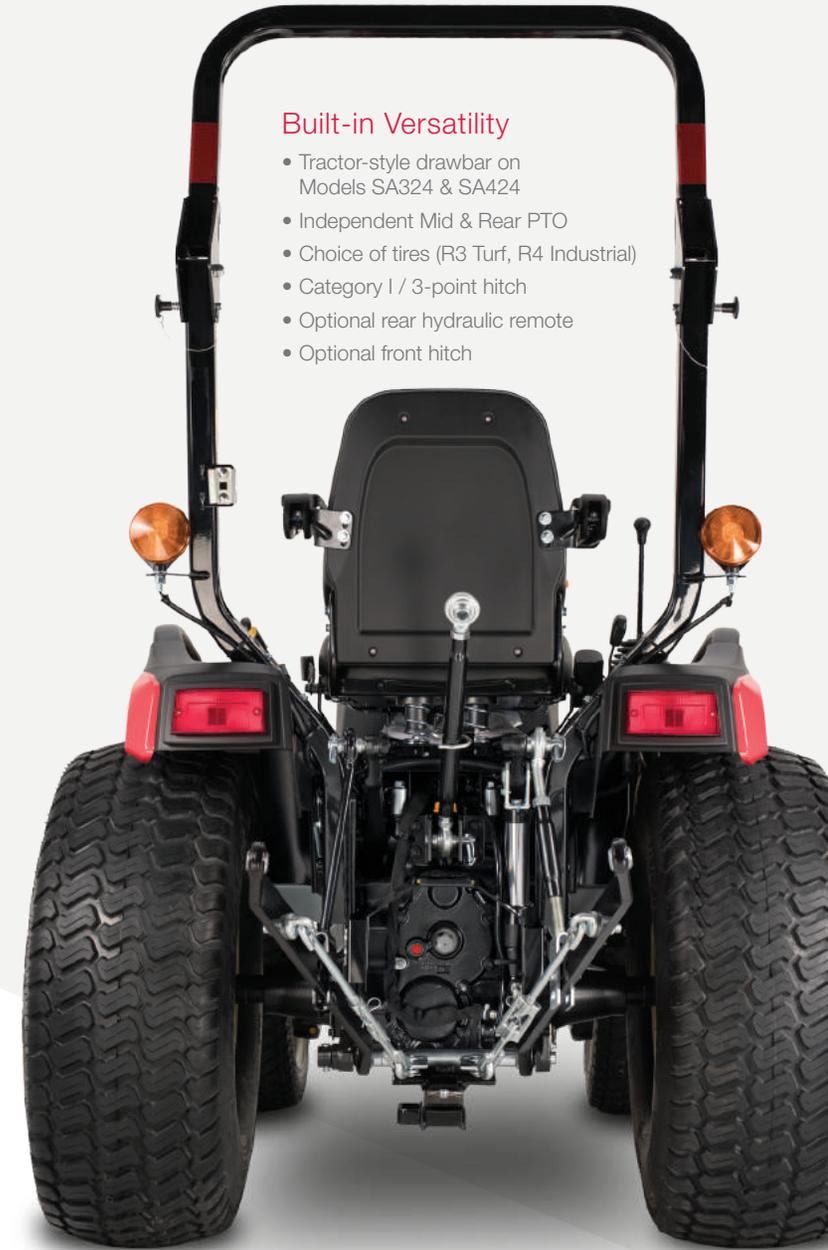
This tractor is built for the people who share our passion for the land and believe in working that land the right way. Not only is it built with a powerful, fuel-efficient engine to work all day, its sleek design is engineered for comfort and efficiency. Now in red. The color of passion. Because when it comes to a love of the land, we know you're not alone.

## Technological Superiority.

The advanced design of the SA Series is only the beginning, from convenient operator controls to under-the-hood engineering. Every SA model is built to help you be more efficient and more productive every day.

## Built-in Versatility

- Tractor-style drawbar on Models SA324 & SA424
- Independent Mid & Rear PTO
- Choice of tires (R3 Turf, R4 Industrial)
- Category I / 3-point hitch
- Optional rear hydraulic remote
- Optional front hitch



# PERFORMANCE LINK TECHNOLOGY FROM YANMAR

## Twin Pedal Convenience

The SA models are equipped with two side-by-side hydrostatic transmission pedals that allow you to switch seamlessly between forward and reverse. You'll notice that jobs, particularly those in tight spaces, get taken care of in a snap. This unique pedal design improves overall ease of operation, and you'll get more done with less effort.

## Hydrostatic Transmission

The SA Series is equipped with a hydrostatic transmission that gives you an unlimited choice of tractor speeds. Quickly find the ideal speed for the easiest to the most demanding tractor operations. On Models 324/424 a 2-range transmission is standard equipment to further enhance the tractor's productivity and versatility.



Dual Pedal Hydrostatic  
Transmission



## Love your **reliability.**

SA Series tractors pack the power you'd expect from much larger tractors. YANMAR makes all the major drivetrain components — the engine, transmission and axles — in-house. And because they're made together to work perfectly together, you get a hardworking machine with more usable horsepower, less power loss and a smoother, more comfortable ride. We call it Performance Link Technology™. You'll quickly appreciate it as a tractor designed to work as hard as you do.



## Attachments



The Model SA424DHX offers an optional four-post roll-over protective structure (ROPS). The 4-post ROPS accommodates installation of optional soft-side cabs or a hardside cab with optional heater. With protection from the cold or rain, you'll be more comfortable and productive.

### Loader Attachments

YANMAR quick attachment system allows for easy use of loader attachments such as pallet forks and snow blades.

### Optional Front Attachments

- Front broom
- Front blade
- Snow blower
- Front hitch kit option with standard hydraulic lift
- Optional mid-PTO kit for snow blower & rotary broom
- Optional hydraulic angle kit for rotary broom



FRONT BROOM



FRONT BLADE



SNOW BLOWER

# Love your versatility.

Built together to work together. YANMAR smoothly integrates the major components and optional attachments so you can get more work done quickly. That means the SA Series can do serious work with a front-end loader, a hydraulic backhoe and three-point hitch attachments for mowing, tilling, planting, digging, plowing and so much more.



# YEAR-ROUND PERFORMANCE



## Optional Rear Attachments

- Quick hitch
- Landscape rakes
- Rear blades
- Rotary tillers
- Grading scrapers and box blades
- Disc harrows
- Stump grinder
- Rotary cutters
- Finish mowers
- Posthole digger
- Cultipacker
- Hay Harvest System including drum disc mower, tedder/rake and round baler\*\*
- 4-in-1 Bed shaper/rotary tiller

## B65 Backhoe

- Digging depth (2' flat bottom) 76"-78"
- Swing arc 180°
- Bucket cylinder digging force 2,800 lbf
- Dipper stick cylinder digging force 1,590 lbf
- Bucket widths 9"-24"
- Optional mechanical thumb kit available

The Model SA424 is outfitted with a larger, more aggressive tire package. This makes for a tractor with increased ground clearance and greater operational stability over challenging terrain.

\* Recommended for the SA424 due to extra ground clearance.

# SA221/324/424

Powertrain	SA221	SA324	SA424/424DHX
Maker	YANMAR	YANMAR	YANMAR
Model	3TNM74F	3TNV80F	3TNV80F
PTO power HP (kW)	15.6 (11.6)	18.1 (13.5)	18.1 (13.5)
Gross power HP (kW)*	21.5 (16.0)	23.9 (17.8)	23.9 (17.8)
Engine RPM	3,200	3,200	3,200
Bore and stroke in (mm)	2.92 x 3.03 (74 x 77)	3.15 x 3.30 (80 x 84)	3.15 x 3.30 (80 x 84)
Total displacement cu. in (L)	60.6 (0.993)	77.2 (1.266)	77.2 (1.266)
Type	4-Cycle inline, water-cooled diesel		
Aspiration	Naturally aspirated	Naturally aspirated	Naturally aspirated
Cooling system	Liquid cooled	Liquid cooled	Liquid cooled
Number of cylinders	3	3	3
Battery	540 CCA	540 CCA	540 CCA
Alternator	40 amp	40 amp	40 amp

## Capacity

Fuel tank US Gal (L)	6.1 (23.0)	6.1 (23.0)	6.1 (23.0)
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## Dimensions

Wheelbase in (mm)	57.9 (1,400)	63.0 (1,600)	63.0 (1,600)
Overall width in (mm) (with R4 tires)	47.3 (1,200)	54.6 (1,387)	54.1 (1,373)
Overall length in (mm) (with R4 tires)	102.1 (2,594)	105.8 (2,688)	105.8 (2,688)
Overall height in (mm) (ROPS/ R4 tires)	82.3 (2,090)	85.8 (2,180)	87.2 (2,215)
Top of steering wheel with R4 tires	51.1 (1,299)	55.3 (1,405)	56.7 (1,440)
Folded ROPS, top of steering wheel	66.3 (1,683)	70.4 (1,789)	71.8 (1,824)
Ground clearance in (mm) (with R4 tires)	6.4 (163)	8.5 (215)	9.9 (249)
Weight lb (kg) (with ROPS, R4 tires)	1,537 (697)	1,715 (778)	1,830 (830)

## Traveling Speeds

Forward mph (km/h) (with R4 tires)	0-8.6 (0-13.8)	Low: 0-5.9 (0-9.4), High: 0-12.3 (0-19.6)	Low: 0-6.3 (0-10.0), High: 0-13.1 (0-21.0)
Reverse mph (km/h) (with R4 tires)	0-6.3 (0-10.0)	Low: 0-4.1 (0-6.6), High: 0-8.5 (0-13.7)	Low: 0-4.3 (0-7.0), High: 0-9.1 (0-14.7)

Drivetrain	SA221	SA324	SA424/424DHX
Transmission type	Hydrostatic	Hydrostatic, dual range speeds	Hydrostatic, dual range speeds
2WD/4WD	Selectable	Selectable	Selectable
Brake	Wet disc	Wet disc	Wet disc
Number of ranges	1	2	2
Rear PTO speed/engine RPM	554/3200	554/3200	554/3200
Mid PTO speed/engine RPM	2057/3200	2057/3200	2057/3200

## Hydraulics

Pump capacity (steering) US gal/min (L/min)	3.7 (14.1)	3.7 (14.1)	3.7 (14.1)
Pump capacity (implement) US gal/min (L/min)	4.3 (16.1)	4.3 (16.1)	4.3 (16.1)
3-point hitch	Limited category 1	Limited category 1	Limited category 1
Control	Select control, open center	Position control, open center	Position control, open center
3-point lift capacity (standard) 24 in behind lift point lb (kg)	660 (300)	1,209 (548)	1,209 (548)
Power steering	Hydrostatic power	Hydrostatic power	Hydrostatic power

## Features and Options

Loader control valve and joystick	Standard	Standard	Standard
Available options	Fan guard kit Valve guard kit Deluxe grille guard w/ worklight option Front/rear worklight option Soft- or hard-side cab Rear hydraulic remote valve (SCV)		

Tire Size		SA221	SA324	SA424/424DHX
Front	R3 Turf	18x8.50-10 4PR	23x8.50-12 4PR	23x8.50-12 4PR
	R4 Industrial	18x8.50-10 6PR	23x8.50-12 4PR	23x8.50-12 4PR
Rear	R3 Turf	26x12.0-12 4PR	33x12.5-16.5 4PR	36x14.00-15 4PR
	R4 Industrial	26x12.0-12 4PR	12-16.5 10PR	14-17.5 6PR

\*As rated by engine manufacturer. Values published are for descriptive purposes only and YANMAR reserves the right to change the values.

<b>B75 Backhoe</b>	<b>SA221</b>	<b>SA324</b>	<b>SA424/424DX</b>
Maximum digging depth (2' flat bottom) in (mm)	78.4 (1,991)	76.9 (1,953)	76 (1,930)
Swing arc	150°	150°	150°
Loading height (bucket at 60°) in (mm)	60 (1,524)	61.5 (1,562)	62.4 (1,585)
Reach from centerline of swing pivot in (mm)	102 (2,591)	104 (2,641.6)	102 (2,591)
Transport height max. overhang in (mm)	42.4 (1,077)	42.4 (1,077)	42.4 (1,077)
Bucket rotation	180°	180°	180°
Loading reach (bucket at 60°) in (mm)	35 (889)	35 (889)	35 (889)
Undercut in (mm)	25 (635)	25 (635)	25 (635)
Bucket cylinder digging force lb (kg)**	2,800 (1,270)	2,800 (1,270)	2,800 (1,270)
Dipperstick cylinder digging force lb (kg)**	1,590 (721)	1,590 (721)	1,590 (721)
Ramp angle (with industrial tires)	15°	15°	15°
Street pads	Optional	Optional	Optional
Bucket options	Various (9" – 24")		
Backhoe weight lb (kg)	677 (307)		
Available option	Mechanical thumb backhoe		

**M60 Mid-Mount Mower**

Discharge type	Side discharge	Side discharge	Side discharge
Mounting method	Ground following	Ground following	Ground following
Shell type	Stamped	Fabricated 10 gauge	Fabricated 10 gauge
Cutting width in (mm)	60 (1,524)	60 (1,524)	60 (1,524)
Cutting height in (mm)	1-4 (25.4-101.6)	1-4 (25.4-101.6)	1-4 (25.4-101.6)
Number of blades	3	3	3
Weight lb (kg)	283.8 (129)	363 (142)	363 (142)

<b>YANMAR Loader Model</b>	<b>YL110</b>	<b>YL210</b>
Maximum lift height (to pivot pin) in (mm)	71 (1,800)	79 (2,000)
Maximum lift height under level bucket in (mm)	51 (1,295)	58 (1,465)
Reach with attachment on ground in (mm)	47 (1,205)	53 (1,355)
Dump reach at maximum lift height in (mm)	24 (610)	36 (920)
Maximum dump angle	40°	40°
Bucket rollback angle	30°	30°
Digging depth at bucket level in (mm)	3.9 (100)	3.9 (100)
Bucket width in (mm)	48 (1,219)	53 (1,346)
Lift capacity at pivot pins lb (kg)	825 (375)	1,199 (545)
Breakout force at pivot pins lb (kg)	1,342 (610)	2,090 (950)
Raising time to full height without load	3 sec.	3.7 sec.
Lowering time without load (power down)	1.8 sec.	2.23 sec.
Bucket dumping time	1.5 sec.	1.6 sec.
Bucket rollback time	2.2 sec.	2.3 sec.
Bucket capacity lb (kg)	5.3 (0.15)	5.65 (0.16)
Bucket weight lb (kg)	156.5 (71)	136 (62)
Loader weight w/bucket lb (kg)	358 (162)	423 (192)
Loader valve, right-hand console mounted	Standard	Standard

**Warranty Coverage for Your Tractor †**

Tractor (private individual usage)	24 months or 2,000 hours
Power train (engine and transmission core components)	10 years or 3,000 hours
Attachments	1-year limited warranty

Note: Attachments sold separately. Please see your local dealer for details.

\*\*Based on backhoe manufacturer's relief setting.

†See your local YANMAR Independent Dealer for warranty coverage and any details.

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