



**T194HST, TS23, TS25/TS25HST
T233HST, T273HST, T293HST**



Specification Guide

Model	T194H	TS23	TS23HST	TS25	TS25HST	T233HST	T273HST	T293HST
ENGINE								
Manufacturer	Yanmar	Yanmar	Yanmar	Yanmar	Yanmar	Mitsubishi	Mitsubishi	Mitsubishi
Model	3TNV74F	3TNV80	3TNV80	3TNV76	3TNV76	S3L	S3L2	S3L2
Engine HP(kw) - Gross	19(14.2)	23.9(17.8)	23.9(17.8)	25.4(19.2)	25.4(19.2)	23(16.9)	27(19.8)	29(21.3)
PTO HP(kw)	-	-	-	-	-	17.4(12.8)	20.7(15.4)	21.8(16.4)
Rated engine speed	3000	3000	3000	3000	3000	2700	2700	2800
Number of cylinders	3	3	3	3	3	3	3	3
Displacement-cu.in. (cc)	60.6(993)	77.3(1267)	77.3(1267)	68.1(1116)	68.1(1116)	68.7(1125)	80.4(1318)	80.4(1318)
Air cleaner	Single Dry	Single Dry	Single Dry	Single Dry	Single Dry	Dual Dry	Dual Dry	Dual Dry
ELECTRICAL SYSTEM								
Alternator	12V40A	12V40A	12V40A	12V40A	12V40A	12V, 50A	12V, 50A	12V, 50A
FUEL SYSTEM								
Type	Indirect Fuel Injection	Indirect Fuel Injection	Indirect Fuel Injection	Indirect Fuel Injection	Indirect Fuel Injection	Indirect Fuel Injection	Indirect Fuel Injection	Indirect Fuel Injection
DRIVETRAIN								
Transmission type	HST	Gear	HST	Gear	HST	HST	HST	HST
Number of speeds	2 Range	6/F 2/R	Infinite / 2 Range	6/F 2/R	Infinite / 2 Range	Infinite / 2 Range	Infinite / 2 Range	Infinite / 2 Range
Max traveling speed, mph (km/h)	7.8(12.5)	11.0(17.7)	11.2(18.1)	11.0(17.7)	11.2(18.1)	10.5(17)	10.5(17)	11.8(19)
Brakes	Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc	Wet Disc
Steering	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
Clutch	N/A	Dry Single Plate	Dry Single Plate	Dry Single Plate	Dry Single Plate	N/A	N/A	N/A
HYDRAULIC SYSTEM								
Pump (type)	Single Gear Pump with Flow Divider	Single Gear Pump with Flow Divider	Single Gear Pump with Flow Divider	Single Gear Pump with Flow Divider	Single Gear Pump with Flow Divider	Dual Gear Pump	Dual Gear Pump	Dual Gear Pump
Implement pump cap. gpm (L/min)	4.1(15.8)	4.1(15.8)	4.1(15.8)	4.1(15.8)	4.1(15.8)	5.0(18.9)	5.0(18.9)	5.2(19.6)
Steering pump cap. gpm (L/min)	2.1(18)	2.7(10.5)	2.7(10.5)	2.7(10.5)	2.7(10.5)	2.6(10)	2.6(10)	2.7(10.4)
Maximum total flow gpm (L/min)	6.9(26.4)	6.9(26.3)	6.9(26.3)	6.9(26.3)	6.9(26.3)	7.6(28.9)	7.6(28.9)	7.9(29.6)
Category, 3 point hitch	1(N)	1(N)	1(N)	1(N)	1(N)	I	I	I
Hitch lift capacity, lb. (kg)	1100(499)	1326(600)	1326(600)	1326(600)	1326(600)	1534(700)	1534(700)	1534(700)
at 24 inches behind link ends, lb(kg)	679(308)	1058(480)	1058(480)	1058(480)	1058(480)	1102(500)	1102(500)	1102(500)
Lift control type	Position	Position	Position	Position	Position	Position	Position	Position
Joy stick valve	N/A	N/A	N/A	N/A	N/A	standard	standard	standard
No. of standard remote valves (Additional option)	N/A	Option (1)	Option (1)	Option (1)	Option (1)	1	1	1
PTO								
Type	Independent	Transmission PTO with ORC	Independent	Transmission PTO with ORC	Independent	Independent	Independent	Independent
Control	Electric/Hydro	Electric/Hydro	Electric/Hydro	Electric/Hydro	Electric/Hydro	Electric/Hydro	Electric/Hydro	Electric/Hydro
Mid (rpm)-option	2500	2000	2000	2000	2000	2000	2000	2000
Rear (rpm)	540	540	540	540	540	540	540	540
Shaft Diameter in. (mm)	1.3(33)	1.3(33)	1.3(33)	1.3(33)	1.3(33)	1.3(33)	1.3(33)	1.3(33)
CAPACITIES								
Fuel Tank, U.S. gal. (L)	6.6(25)	5.8(22)	5.8(22)	5.8(22)	5.8(22)	6.6(25)	6.6(25)	6.6(25)
Cooling System U.S. qt. (L)	3.7(3.5)	3.8(3.6)	3.8(3.6)	3.8(3.6)	3.8(3.6)	5.9(5.6)	9.3(8.8)	5.9(5.6)
Crankcase (with filter) U.S. qt. (L)	2.1(2)	2.9(2.7)	2.9(2.7)	2.9(2.7)	2.9(2.7)	4.5(4.3)	6.0(5.7)	4.5(4.3)
Trans. & Hydr. System, U.S.gal. (L)	3.6(13.5)	3.7(14)	3.7(14)	3.7(14)	3.7(14)	5.8(17)	9.5(36)	5.8(17)
Front Axle qt. (L)	2.4(2.5)	3.7(3.5)	3.7(3.5)	3.7(3.5)	3.7(3.5)	4.7(4.5)	8.6(8.2)	4.7(4.5)
DIMENSIONS(with standard tires)								
Overall length, in. (mm) with 3P	94.2(2394)	100.5(2553)	100.5(2553)	100.5(2553)	100.5(2553)	107.8(2740)	107.8(2740)	107.8(2740)
Overall width, in. (mm)	44.9(1130)	45.8(1164)	45.8(1164)	45.8(1164)	45.8(1164)	52.8(1342)	52.8(1342)	56.3(1430)
Wheelbase, in. (mm)	53.1(1350)	57.5(1460)	57.5(1460)	57.5(1460)	57.5(1460)	58.3(1480)	58.3(1480)	58.3(1480)
Height to top of ROPS, in. (mm)	84.6(2200)	91.3(2320)	91.3(2320)	91.3(2320)	91.3(2320)	89.8(2280)	97.2(2470)	91.7(2330)
Min. Ground Clearance, in (mm)	F/A 8.3(210)	9.4(240)	9.4(240)	9.4(240)	9.4(240)	7.7(196)	7.7(196)	9.8(250)
Min. Turning Radius, in (mm) with brakes	-	-	-	-	-	98.5(2502)	98.5(2502)	96.2(2442)
Min. Turning Radius, in (mm) w/o brakes	88.6(2200)	100(2540)	100(2540)	100(2540)	100(2540)	105.5(2682)	105.5(2682)	102.8(2612)
STANDARD TIRES								
Agricultural Front	BAR F 16x7.50-8	6.0-12	6.0-12	6.0-12	6.0-12	6.0-12	-	-
Agricultural Rear	BAR R 24x12.00-12	9.5-16	9.5-16	9.5-16	9.5-16	9.5-16	-	-
Industrial Front	TURF F 16x7.50-8	20x8.0-10	20x8.0-10	20x8.0-10	20x8.0-10	23x8.5-12	23(8.5-12)	25x8.5-14
Industrial Rear	TURF R 16x12.00-12	27x12.5-15	27x12.5-15	27x12.5-15	27x12.5-15	12x16.5	12-16.5	14-17.5
ROLL-OVER PROTECTIVE STRUCTURES								
Standard	ROPS	ROPS	ROPS	ROPS/ Cab(Optional)	ROPS/ Cab(Optional)	ROPS	ROPS/ Cab(Optional)	ROPS/ Cab(Optional)
WEIGHT								
Total weight, lb (kg)	1433(650)	1638(743)	1610(730)	1638(743)	1610(730)	1907(865)	1907(865)	1980(898)

Loader

Model	TX19H	TX2000	TX25
Applicable Tractors	T194HST	T233HST, T273HST, T293HST	TS23, TS25
Max Lift Height to Pivot Pin (in)	71.3"	85.2"	75.3"
Clearance with Bucket Dumped (in)	53.9"	65"	57.4"
Reach at Max Lift Height (in)	28.3"	26.5"	24.9"
Max Dump Angle (deg)	40°	47°	38°
Max Rollback Angle (deg)	26°	33°	20°
Digging Depth (in)	3.9"	4.3"	4.1"
Overall Height in Carry Position (in)	42"	45.7"	42.8"
Lift Capacity to Max Height at Pivot Pin (lbs)	617 lbs	1,380 lbs	772 lbs
Breakout Force at Ground Level, Pivot Pin (lbs)	1,235 lbs	2,059 lbs	1,190 lbs
Loader Total Weight (lbs)	419 lbs	683 lbs	481 lbs
Quick Attach Bucket	P/N	Yes	Yes

Backhoe

Model	BY60	BY200
Applicable Tractors	TS23 / TS25	T233HST, T273HST, T293HST
Digging Depth - Two Foot Flat Bottom (in)	77"	76.3"
Reach from Center Line of Swing Pivot (in)	98"	113.1"
Loading Height - Bucket at 60° (in)	60"	63.6"
Swing Arc (deg)	140°	180°
Transport Max Height (in)	66"	75"
Bucket Rotation (deg)	185°	180°
Bucket Standard (in)	16"	16"
Stabilizer Spread down position (in)	86"	79.9"
Stabilizer Spread up position (in)	50"	44.7"
Bucket Cylinder Digging Force (lbs)	2,050 lbs	2,846 lbs
Shipping Weight without Bucket (lbs)	725 lbs	787 lbs

Mower

Model	MM48	MM54	MM60R-1	MM60R
Applicable Tractor	T194HST	T194HST	T233HST, T273HST, T293HST	TS23, TS25
Type	Side Discharge	Side Discharge	Side Discharge	Side Discharge
Mounting Method	Parallel Linkage	Parallel Linkage	Parallel Linkage	Parallel Linkage
Working Width (in)	48"	54"	60"	60"
Cutting Height (in)	1-4"	1-4"	1-4"	1-4"
Transport Height (in)	5.6"	5.6"	5.12"	5.12"
Lift Linkage Type	Lower Link Lift	Lower Link Lift	Lower Link Lift	Lower Link Lift
Adjustment of Increment	Dial Gauge	Dial Gauge	Dial Gauge	Dial Gauge
Number of Blades (EA)	3 EA	3 EA	3 EA	3 EA
Blade Tip Velocity (fpm)	13,048	14,401	18,362	18,362
Blade Length (in)	16.5"	18.5"	20.8"	20.8"
HP Rating (hp)	18-20 hp	18-20 hp	20-25 hp	20-25 hp
Deck Thickness (in)	0.13"	0.13"	0.13"	0.13"
Weight (lb)	176"	186"	272"	272"
Universal Joint (deg x mm)	21.6° x 470L	21.6° x 470L	21.6° x 525L	21.6° x 525L
Wheel (EA)	4 EA	4 EA	4 EA	4 EA

STANDARD FEATURES

- Ergonomic operator platform
- Pre-heat starting aid
- Optional remote control valves - not available on T194
- Hydrostatic power steering
- Adjustable seat
- Heavy-duty drawbar
- Turn signals
- Cabs available on TS23/TS25

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19 / 23 / 25 / 27 / 29 hp



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Subcompact Line

T194^{HST}, TS23, TS25/TS25^{HST} T233^{HST}, T273^{HST}, T293^{HST}

- HST / SYNC Shuttle Transmission
- Powered by Mitsubishi or Yanmar engines
- Quick Attach Loader
- Cabs available on TS23, TS25, T233HST, T273HST, T293HST
- Four Wheel Drive



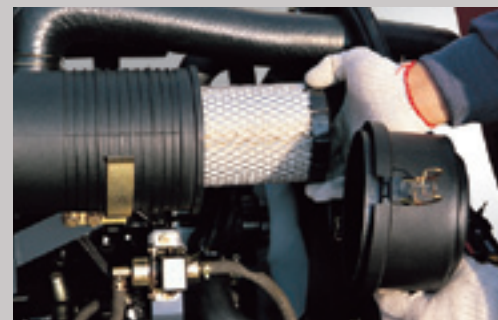
Instrument Panel

- Easy-to-reach controls
- Easy-to-read instrument panel
- Hazard, cruise, & PTO switch



Independent PTO Switch

You can select between the rear or mid PTO separately or simultaneously. This allows for the use of various implements, including a mid-mount mower



Dual Air Cleaner

Dual air filter elements protects and extends engine life



Rear Remote

TYM offers more standard remotes for your added convenience



Hydrostatic transmission models



Cruise control



Operator controls

Loader joystick

Features shown above not available on all models



TYM Subcompact Line

Whether you are a hobby farmer or a weekend warrior, TYM builds the perfect tractor for you. With Tier III compliant Mitsubishi or Yanmar engines, the TYM Subcompact line offers a powerful and environmentally friendly solution to your rural lifestyle needs. These tractors are built for work and operator comfort with ergonomically designed operator platforms and cabs available on all models. If you are looking for high performance and great value, you will find it in a TYM tractor.

